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OM protein - protein search, using sw model

Run on: March 13, 2003, 12:33:48 ; Search time 23 Seconds
(Without alignments)
263.527 Million cell updates/sec

Title: US-09-674-266A-181
Perfect score: 1063
Sequence: 1 RISCAGTLLSGSGPHPSRRLF.....DTALLDNMKALKLTTEL 206

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA: *
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep: *
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep: *
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep: *
5: /cgn2_6/ptodata/1/1aa/PCTUS.COMB.pep: *
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	899	84.6	175	US-08-916-576B-2	Sequence 2, Appli
2	899	84.6	175	US-09-247-155-106	Sequence 106, App
3	609.5	57.3	170	US-08-916-576B-8	Sequence 8, Appli
4	605	56.9	131	US-09-247-155-174	Sequence 174, App
5	555	52.2	166	US-08-916-576B-6	Sequence 6, Appli
6	448	42.1	183	US-08-916-576B-7	Sequence 7, Appli
7	222	20.9	172	US-08-916-576B-4	Sequence 4, Appli
8	81.5	7.7	901	US-08-884-681-5	Sequence 5, Appli
9	81.5	7.7	901	US-09-258-643-5	Sequence 5, Appli
10	81.5	7.7	968	US-08-560-005-7	Sequence 7, Appli
11	81.5	7.7	968	US-09-418-540-7	Sequence 7, Appli
12	78	7.3	129	US-09-534-638-5	Sequence 5, Appli
13	78	7.3	453	US-09-013-881-5	Sequence 5, Appli
14	78	7.3	1160	PCT-US92-05401-4	Sequence 4, Appli
15	77	7.2	652	US-08-313-185-53	Sequence 53, Appli
16	77	7.2	652	US-08-459-499-17	Sequence 17, Appli
17	77	7.2	652	US-09-082-614A-53	Sequence 53, Appli
18	74	7.0	264	US-09-053-197A-8	Sequence 8, Appli
19	74	7.0	264	US-09-085-761A-8	Sequence 8, Appli
20	71.5	6.7	352	US-08-921-887-52	Sequence 52, Appli
21	71.5	6.7	382	US-09-134-001C-3765	Sequence 3765, Ap
22	71	6.7	529	US-08-821-984-6	Sequence 6, Appli
23	71	6.7	529	US-08-821-984-8	Sequence 8, Appli
24	71	6.7	529	US-09-323-749-6	Sequence 6, Appli
25	70.5	6.6	529	US-09-329-749-8	Sequence 8, Appli
26	70.5	6.6	481	US-08-186-811-2	Sequence 2, Appli
27	70.5	6.6	481	US-08-311-611A-98	Sequence 98, Appli

28	70.5	6.6	481	US-08-372-783-98	Sequence 98, Appli
29	70.5	6.6	481	US-08-372-105-98	Sequence 98, Appli
30	70.5	6.6	481	US-08-306-473A-98	Sequence 98, Appli
31	70.5	6.6	481	US-08-261-660A-4	Sequence 4, Appli
32	70.5	6.6	481	US-08-209-762-98	Sequence 98, Appli
33	70.5	6.6	481	US-08-473-344-98	Sequence 98, Appli
34	70.5	6.6	481	US-08-274-303-6	Sequence 6, Appli
35	70.5	6.6	481	US-08-377-391A-2	Sequence 2, Appli
36	70.5	6.6	481	US-08-485-445A-98	Sequence 98, Appli
37	70.5	6.6	481	US-08-779-400-2	Sequence 2, Appli
38	70.5	6.6	481	US-08-955-660-2	Sequence 2, Appli
39	70.5	6.6	481	US-09-119-263-98	Sequence 98, Appli
40	70.5	6.6	481	US-08-657-162-98	Sequence 98, Appli
41	70.5	6.6	481	US-09-224-480-98	Sequence 98, Appli
42	70.5	6.6	481	US-09-093-539-98	Sequence 98, Appli
43	70.5	6.6	481	US-09-146-620-2	Sequence 2, Appli
44	70.5	6.6	481	US-09-395-453-2	Sequence 2, Appli
45	70.5	6.6	481	US-09-280-909A-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-08-916-576B-2
; Sequence 2, Application US/08916576B
; Patent No. 6171816
; GENERAL INFORMATION:
; APPLICANT: YU, GUO-LIANG
; APPLICANT: DILLON, PATRICK J.
; APPLICANT: EBNER, REINHARD
; APPLICANT: ENDRESS, GREGORY A.
; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESS: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 NEW YORK AVENUE, SUITE 600
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: US
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentia Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/916,576B
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/024,347
; FILING DATE: 23-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: STEFFE, ERIC K.
; REGISTRATION NUMBER: 36,688
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 175 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-916-576B-2
Query Match 84.6%; Score 899; DB 4; Length 175;
Best Local Similarity 100.0%; Pred.No. 1.2e-95;
Matches 175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 32 MEKIPVSATLLVALSYTLARDITTVKPGAKKDKSRPKLPQTLSGWDQILMTQTYEE 91

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Db 1 MEKIPVSAFLLVALSTYLARDTVKPGAKKDTKDSRPKLPQTLSSRGMDQIMTQTYEE 60
OY 92 ALYKSKTSNKPMLTIHHLDECPHSOALKKVAENKEIOKLAEOFVLNLVYETTDKHLSP 151
Db 61 ALYKSKTSNKPMLTIHHLDECPHSOALKKVAENKEIOKLAEOFVLNLVYETTDKHLSP 120
OY 152 DGQVPRIMEVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKKALKLKTTEL 206
Db 121 DGQVPRIMEVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKKALKLKTTEL 175

RESULT 2
US-09-247-155-106
; Sequence 106, Application US/09247155A
; Patent No. 6312922
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duclert, Aymeric
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: Complementary DNAs
; FILE REFERENCE: GENSET.021A
; CURRENT APPLICATION NUMBER: US/09/247,155A
; EARLIER FILING DATE: 1999-02-09
; EARLIER APPLICATION NUMBER: 60/074,121
; EARLIER FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: 60/081,563
; EARLIER FILING DATE: 1998-04-13
; EARLIER APPLICATION NUMBER: 60/096,116
; EARLIER FILING DATE: 1998-08-10
; EARLIER APPLICATION NUMBER: 60/099,273
; EARLIER FILING DATE: 1998-10-04
; NUMBER OF SEQ ID NOS: 182
; SOFTWARE: Patent.pm
; SEQ ID NO 106
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -20..-1
US-09-247-155-106

Query Match 84.6%: Score 899; DB 4; Length 175;
Best Local Similarity 100.0%; Pred. No. 1.2e-95;
Matches 175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 32 MEKIPVSAFLLVALSTYLARDTVKPGAKKDTKDSRPKLPQTLSSRGMDQIMTQTYEE 91
Db 1 MEKIPVSAFLLVALSTYLARDTVKPGAKKDTKDSRPKLPQTLSSRGMDQIMTQTYEE 60
OY 92 ALYKSKTSNKPMLTIHHLDECPHSOALKKVAENKEIOKLAEOFVLNLVYETTDKHLSP 151
Db 61 ALYKSKTSNKPMLTIHHLDECPHSOALKKVAENKEIOKLAEOFVLNLVYETTDKHLSP 120
OY 152 DGQVPRIMEVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKKALKLKTTEL 206
Db 121 DGQVPRIMEVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKKALKLKTTEL 175

RESULT 3
US-08-916-576b-8
; Sequence 8, Application US/08916576b
; Patent No. 6171816
; GENERAL INFORMATION:
; APPLICANT: YU, GUO-LIANG
; APPLICANT: DILLON, PATRICK J.
; APPLICANT: EBNER, REINHARD
; APPLICANT: ENDRESS, GREGORY A.
; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNER, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
```

```
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/916,576b
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024,347
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STERFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 170 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-916-576b-8

Query Match 57.3%: Score 609.5; DB 4; Length 170;
Best Local Similarity 71.3%; Pred. No. 2.5e-62;
Matches 122; Conservative 14; Mismatches 26; Indels 9; Gaps 2;

OY 37 VSAFLLVALSTYLARDTVKPGAKKDTKDSRP-KLPQTLSSRGMDQIMTQTYEEALYK 95
Db 7 LGACLLVALSXXLA-----XXXKGDKXRPKIGPQTLSSRGMDXIXWVQTYEEGLXK 58
OY 96 SKTSNKPMLTIHHLDECPHSOALKKVAENKEIOKLAEOFVLNLVYETTDKHLSPDOY 155
Db 59 AXSKSKPLMIHHLDECPYSOALKKVAENKEIOKLAONFVLNLVYETTDENLSPDOY 118
OY 156 VPRIMEVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKKALKLKTTEL 206
Db 119 VPRIMEVDPSTLVTRADITGRYSNRLVAYEPADTALLDNMKKALKLKTTEL 169

RESULT 4
US-09-247-155-174
; Sequence 174, Application US/09247155A
; Patent No. 6312922
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duclert, Aymeric
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: Complementary DNAs
; FILE REFERENCE: GENSET.021A
; CURRENT APPLICATION NUMBER: US/09/247,155A
; EARLIER FILING DATE: 1999-02-09
; EARLIER APPLICATION NUMBER: 60/074,121
; EARLIER FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: 60/081,563
; EARLIER FILING DATE: 1998-04-13
; EARLIER APPLICATION NUMBER: 60/096,116
; EARLIER FILING DATE: 1998-08-10
; EARLIER APPLICATION NUMBER: 60/099,273
; EARLIER FILING DATE: 1998-10-04
; NUMBER OF SEQ ID NOS: 182
; SOFTWARE: Patent.pm
; SEQ ID NO 174
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LENGTH: 131
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SIGNAL
LOCATION: -20...-1
FEATURE:
NAME/KEY: UNSURE
LOCATION: 40,41,43,60,70,76,82,86,105,107
OTHER INFORMATION: Xaa = any one of the twenty amino acids
US-09-247-155-174

Query Match
Best Local Similarity 92.9%; Pred. No. 5,6e-62;
Matches 117; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 32 MEKIPVSAFLLVSYTLARDTTVPKAKKDKSRPKLPQTLISRGWDQLMTQTYEE 91
DB 1 MEKIPVSAFLLVSYTLARDTTVPKAKKDKSRPKLPQTLISRGWDQLMTQTYEX 60
QY 92 ALYKSTSKPKLMIHHHDECPHSQALKVFAENKEIQKLAEEQVLLNLVYETTDKHLSP 151
DB 61 XLKSTSKPKLMIHHHDXCPHSQALKVFAENKXIQKLAEXQVLLNLVYETTDKHLSP 120
QY 152 DGQYVP 157
DB 121 DGQYVP 126

RESULT 5

US-08-916-576B-6
Sequence 6, Application US/08916576B

Patent No. 6171816

GENERAL INFORMATION:

APPLICANT: YU, GUO-LIANG

APPLICANT: DILLON, PATRICK J.

APPLICANT: EBNER, REINHARD

APPLICANT: ENDRESS, GREGORY A.

TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS

NUMBER OF SEQUENCES: 45

CORRESPONDENCE ADDRESS:

ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.

STREET: 1100 NEW YORK AVENUE, SUITE 600

CITY: WASHINGTON

STATE: DC

COUNTRY: US

ZIP: 20005-3934

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/916,576B

FILING DATE:

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/024,347

FILING DATE: 23-AUG-1996

ATTORNEY/AGENT INFORMATION:

NAME: STEFFE, ERIC K.

REGISTRATION NUMBER: 36,688

REFERENCE/DOCKET NUMBER: 1488,0500001

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 371-2600

TELEFAX: (202) 371-2540

INFORMATION FOR SEQ. ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 166 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-916-576B-6

Query Match
Best Local Similarity 52.2%; Score 555; DB 4; Length 166;
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4;

QY 41 LLVLSYTLARDTTVPKAKKDKSRPKLPQTLISRGWDQLMTQTYEALYKSTSN 100
DB 11 LLVTVSSNLA--IAIK-----KEKR--PQTLISRGWDQLMTQTYEGGFYAGKSK 59
QY 101 KPLMIHHHDECPHSQALKVFAENKEIQKLAEEQVLLNLVYETTDKHLSPGQYVPRI 159
DB 60 KPLMIHHHDECPHSQALKVFAENKEIQKLAEEQVLLNLVYETTDKHLSPGQYVPRI 119
QY 160 MFVDPSTLVRADITGRYSNRLYAEPADTALLDNMKAKLKLTEL 206
DB 120 MFVDPSTLVRADITGRYSNRLYEPDRPLLIENMKALRLIOSEL 166

RESULT 6

US-08-916-576B-7
Sequence 7, Application US/08916576B

Patent No. 6171816

GENERAL INFORMATION:

APPLICANT: YU, GUO-LIANG

APPLICANT: DILLON, PATRICK J.

APPLICANT: EBNER, REINHARD

APPLICANT: ENDRESS, GREGORY A.

TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS

NUMBER OF SEQUENCES: 45

CORRESPONDENCE ADDRESS:

ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.

STREET: 1100 NEW YORK AVENUE, SUITE 600

CITY: WASHINGTON

STATE: DC

COUNTRY: US

ZIP: 20005-3934

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/916,576B

FILING DATE:

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/024,347

FILING DATE: 23-AUG-1996

ATTORNEY/AGENT INFORMATION:

NAME: STEFFE, ERIC K.

REGISTRATION NUMBER: 36,688

REFERENCE/DOCKET NUMBER: 1488,0500001

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 371-2600

TELEFAX: (202) 371-2540

INFORMATION FOR SEQ. ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 183 amino acids

TYPE: amino acid

STRANDEDNESS: not relevant

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-916-576B-7

Query Match
Best Local Similarity 42.1%; Score 448; DB 4; Length 183;
Matches 88; Conservative 29; Mismatches 51; Indels 10; Gaps 3;

QY 39 AFLLVLSYTLARDTTVPK---GAKDKTSRKLKLP-----QTLISRGWDQLMTQTY 89
DB 6 SLVCLVLSALGSAVLKPKKQAGTDTKDEPAPDKTKGLTKGLDRGWESIEWQTY 65
QY 90 EALYKSTSKPKLMIHHHDECPHSQALKVFAENKEIQKLAEEQVLLNLVYETTDKHL 148

Db 66 E6GLAKAENNNPPLVHILHLEDCPYSIAKKAFAVADRNAOKLAODEFIMLVHPVADEN 125
Qy 149 LSPDQVYPRIMEFVDPSTLRADITGRYSNRLYAYEPADTALLDMMKALKLLKTEL 206
Db 126 OSPDGHYPRVIFIDPSLTFRSDLRGKGNKMYAIDADDIPELITNMKAKSFLKTEL 183

RESULT 7

US-08-916-576B-4
Sequence 4, Application US/08916576B

Patent No. 6171816

GENERAL INFORMATION:

APPLICANT: YU, GUO-LIANG

APPLICANT: DILLON, PATRICK J.

APPLICANT: EBNER, REINHARD

APPLICANT: ENDRESS, GREGORY A.

TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS

NUMBER OF SEQUENCES: 45

CORRESPONDENCE ADDRESS:

ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.

STREET: 1100 NEW YORK AVENUE, SUITE 600

CITY: WASHINGTON

STATE: DC

COUNTRY: US

ZIP: 20005-3934

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/916,576B

FILING DATE:

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/024,347

FILING DATE: 23-AUG-1996

ATTORNEY/AGENT INFORMATION:

NAME: STEFFE, ERIC K.

REGISTRATION NUMBER: 36,688

REFERENCE/DOCKET NUMBER: 1488.0500001

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 371-2600

TELEFAX: (202) 371-2540

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 172 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-916-576B-4

Query Match

Best Local Similarity 34.2%; Score 222; DB 4; Length 172;

Matches 54; Conservative 26; Mismatches 56; Indels 22; Gaps 3;

Qy 66 DSRPLPOT-----LSRCMGDOLITOTYEALYKTSNKPMLII 106
Db 2 ETRPRLGATCLGFSFLLLYISDGHNGLGKGFHIIH-RLEDDGKKAASGLPLMYI 60
Qy 107 HHLDCEPHSQALKKVFANKEIKLAEOFLVNLN--VYETTDKHLSPDQVYPRIMEFVP 164
Db 61 IHKSWGACAKALPKFAESTEISELSHNFVNVNLEDEDEPDESDPGYIPRIFLDP 120
Qy 165 SUTVRADITGRYSNRLYAYEPADTALLDMMKALKLL 202
Db 121 SKVHPHEIINENGNSYKIFYVASQVQGMKEAQERL 158

RESULT 8

US-08-884-681-5
Sequence 5, Application US/08884681

Patent No. 5955338
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Lal, Preeti
APPLICANT: Corley, Neil C.
APPLICANT: Shah, Purvi
TITLE OF INVENTION: NEW HUMAN PHOSPHATIDYLINOSITOL
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/884,681

FILING DATE: Filed Herewith

PRIOR APPLICATION NUMBER:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0334 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 901 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: GenBank

CLONE: 1420920

US-08-884-681-5

Query Match

Best Local Similarity 7.7%; Score 81.5; DB 2; Length 901;

Matches 45; Conservative 32; Mismatches 46; Indels 67; Gaps 13;

Qy 55 TYKPGAKKDTKDSRPK--LPQTLRSGWDOLITOTYEAL-YKS---KTS-NKPLMI 106
Db 476 TYKYDSKTDWDSGKCRVP-----AWCDRIIRGTNNVQNLVRSHEMLKTSQKVSAL 530
Qy 107 HHL-----DECPHSQALKKVFANKEIKLAE-----QFVLNLVYETTDK-- 147
Db 531 FHIGYKVVDE---RRYRVFEDSVRIIDRMENDFLPSLSLRREVFENVKFRQLOK 586
Qy 148 -HLSPDQ-----YVPRIM-----FVDPSTLRADITGRYSNRLYAYE 184
Db 587 FQISNNGVPCPFHSFTPKLNDQCYCKPMLRABFEYLEPNETV--DIS-----LDYV 638
Qy 185 PADTALLDN 194
Db 639 SKDSVTILNS 648

RESULT 9

US-09-258-643-5

Sequence 5, Application US/09258643

Patent No. 6277373

GENERAL INFORMATION:

APPLICANT: Hillman, Jennifer L.

APPLICANT: Lal, Preeti

APPLICANT: Corley, Neil C.

```

; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: NEW HUMAN PHOSPHATIDYLINOSITOL
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/258,643
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/884,681
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0334 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 901 amino acids
; TYPE: amino acid
; STRANDEDNESS: Single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1420920
; US-09-258-643-5

Query Match          7.7%; Score 81.5; DB 4; Length 901;
Best Local Similarity 23.7%; Pred. No. 1.8;
Matches 45; Conservative 32; Mismatches 46; Indels 67; Gaps 13;

QY 55 TVPKGAKKTKDSRPK--LPQTLSRGWGDLITQTYEAL-YKS-----KTS-NKPLMIT 106
DB 476 TVKYDSKTDKRWSDSGCRYP-----AMCDRIILRGTVNOLNYSMLKTSQHKPVSA 530
QY 107 HHU-----DECPHQALKKVFENKEIQKLA-----QFVLNLVYETDK-- 147
DB 531 FHIGVAVDE-----RRYRVFEDSVRIIMRMDNFLPSLSLSRREFVFNKRLQK 586
QY 148 -HLSPDQ-----YVPRIM-----FVDPSTLYRADITGRYSNRLYAYE 184
DB 587 FOISNNGQVCHRSFIPKLNDSQYCKPWLRAPEFGYLEPNETV--DIS-----LDVYV 638
QY 185 PADTALLDN 194
DB 639 SKDSVTLLNS 648

RESULT 10
US-08-560-005-7
; Sequence 7, Application US/08560005
; GENERAL INFORMATION:
; APPLICANT: Pot, David A.
; APPLICANT: Williams, Lewis T.
; APPLICANT: Jefferson, Anne Bennett
; APPLICANT: Majerus, Philip W.
; TITLE OF INVENTION: No. 6001354el Grb2 Associating Protein and Nucleic
; TITLE OF INVENTION: Acids Encoding Therefor
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Stewart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/560,005
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Dow, Karen B.
; REGISTRATION NUMBER: 29,684
; REFERENCE/DOCKET NUMBER: 2307K-0624000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 968 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Region
; LOCATION: 1..968
; OTHER INFORMATION: /note="ocrl"
; US-08-560-005-7

Query Match          7.7%; Score 81.5; DB 3; Length 968;
Best Local Similarity 23.7%; Pred. No. 2;
Matches 45; Conservative 32; Mismatches 46; Indels 67; Gaps 13;

QY 55 TVPKGAKKTKDSRPK--LPQTLSRGWGDLITQTYEAL-YKS-----KTS-NKPLMIT 106
DB 551 TVKYDSKTDKRWSDSGCRYP-----AMCDRIILRGTVNOLNYSMLKTSQHKPVSA 605
QY 107 HHU-----DECPHQALKKVFENKEIQKLA-----QFVLNLVYETDK-- 147
DB 606 FHIGVAVDE-----RRYRVFEDSVRIIMRMDNFLPSLSLSRREFVFNKRLQK 661
QY 148 -HLSPDQ-----YVPRIM-----FVDPSTLYRADITGRYSNRLYAYE 184
DB 662 FOISNNGQVCHRSFIPKLNDSQYCKPWLRAPEFGYLEPNETV--DIS-----LDVYV 713
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DB 714 SKDSVTLLNS 723

RESULT 11
US-09-418-540-7
; Sequence 7, Application US/09418540
; Patent No. 6296848
; GENERAL INFORMATION:
; APPLICANT: Pot, David A.
; APPLICANT: Williams, Lewis T.
; APPLICANT: Jefferson, Anne Bennett
; APPLICANT: Majerus, Philip W.
; TITLE OF INVENTION: No. 6296848el Grb2 Associating Protein and Nucleic
; TITLE OF INVENTION: Acids Encoding Therefor
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Stewart Tower, Suite 2000
; CITY: San Francisco
; STATE: California
; COUNTRY: USA

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Db 187 LRKGFYSQKVTNPULRIISLNTNLYGPNIMTLNKTD-----ANOFE 231
 QY 85 WQTYEALYKSKTSKPLMIHH--LDECPHSO---ALKKFAE-----NKEIOKLAE 133
 Db 232 W--LESTLANSQONKEKVIILHVPVGYLPSSONITAMREYNEKLIDIFOKYSDVIAG 288
 QY 134 QF---VLNLVYETTTKHLSPDGOYPRIMEFVPSLTVRADITGRYSN---RLYAVEPA 186
 Db 289 QFYGHHRDSIMVLSDKKGPVNS-----LFVAPATVPKASVLEKOTNNNGIRLFQYDPR 343
 QY 187 DTALLDNMKKALKLKTTEL 206
 Db 344 DYK-LDMLQYILNLTLEANL 362

RESULT 14
 PCT-US92-05401-4
 ; Sequence 4, Application PC/7US9205401
 ; GENERAL INFORMATION:
 ; APPLICANT: Lemischka, Ihor R.
 ; TITLE OF INVENTION: TOTIPOTENT HEMATOPOIETIC STEM CELL
 ; NUMBER OF SEQUENCES: 6
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: IMCLONE SYSTEMS INCORPORATED
 ; STREET: 180 VARICK STREET
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: U.S.A.
 ; ZIP: 10014
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US92/05401
 ; FILING DATE: 19920626
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Felt, Irving N.
 ; REGISTRATION NUMBER: 28,601
 ; REFERENCE/DOCKET NUMBER: LEM-3-PPPPPT
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 212-645-1405
 ; TELEFAX: 212-645-2054
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1160 amino acids
 ; TYPE: AMINO ACID
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; PCT-US92-05401-4

Query Match 7.3%; Score 78; DB 5; Length 1160;
 Best Local Similarity 28.4%; Pred. No. 6.7;
 Matches 27; Conservative 17; Mismatches 35; Indels 16; Gaps 4;
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 Db 952 RPSFP-NLTSFLGQL--ADAEEAMYN-----VDGRVSCPTTYQNRREFSNEMD 999
 QY 128 IQKLAEOFYV---LNLVYETTTKHLSPDGOYVPR 158
 Db 1000 LGLSPQOVEDSRNNLVLRITSSLHLSTGCRLPK 1034

RESULT 15
 US-08-313-185-53
 ; Sequence 53, Application US/08313185
 ; Patent No. 5851763
 ; GENERAL INFORMATION:
 ; APPLICANT: Heym, Beate

APPLICANT: Cole, Stewart
 APPLICANT: Young, Douglas
 APPLICANT: Zhang, Ying
 APPLICANT: Honore, Nadine
 APPLICANT: Teleni, Amalio
 APPLICANT: Bodmer, Thomas
 TITLE OF INVENTION: Rapid Detection of Antibiotic Resistance
 NUMBER OF SEQUENCES: 66
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
 ADDRESSEE: Dunner
 STREET: 1300 I Street, N.W.
 City: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005-3315
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/313,185
 ; FILING DATE: 12-OCT-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Meyers, Kenneth J.
 ; REGISTRATION NUMBER: 25,146
 ; REFERENCE/DOCKET NUMBER: 02356.0068-00000
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 408-4000
 ; TELEFAX: (202) 408-4400
 ; INFORMATION FOR SEQ ID NO: 53:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 652 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: peptide
 ; US-08-313-185-53

Query Match 7.2%; Score 77; DB 2; Length 652;
 Best Local Similarity 20.7%; Pred. No. 3.7;
 Matches 49; Conservative 32; Mismatches 84; Indels 72; Gaps 11;
 QY 12 GPHSRRLTGRWVRKSRVAMEKIPVSAFLLLVALSYLARDTVKPGAKKDTKDSRPL 71
 Db 211 GPNHS-PLSAAALRTFRMCNDEETVA---LINGHTLTKTHGAGPASHVGPPEAPIE 266
 QY 72 PQTLSRGMD-----QLIMTQTYEBALYKSKTSKPLMIHHLLDCPHSOALKKFAENKE 127
 Db 267 AQLG-LGWASSYGSVGADAITTSCGVVWQTPQWMPFENLFEYEMVLTKSPAGAQAADV 324
 QY 97 -----KTSNKPMLIHHLLDC-PSOALKKFAENKEIOKLAEQVLLNLYET 144
 Db 325 APDILPPDPFSKRRKPTMLVTDLLRPDEYKISRRLNDPEEAFARAW-----FKL 378
 QY 145 TDKHLSPD---GOYVPR-IMFVPSLTVRADI-----TGRYSNRLYAVEPADT 188
 Db 379 THRMGPKRYIGPEVPKEDLIMQDPPOYPTEIDILKKAIAASGLVSELYSAMASAST 435

Search completed: March 13, 2003, 13:28:09
 Job time : 27 secs

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OM protein - protein search, using sw model

Run on: March 13, 2003, 12:52:08 ; Search time 25 seconds
(without alignments)
379.799 Million cell updates/sec

Title: US-09-674-266a-181

Perfect score: 1063
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Gapop 10.0 , Gapext 0.5

Searched: 199416 seqs, 46092074 residues

Total number of hits satisfying chosen parameters: 199416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 08
Maximum Match 1008

Listing first 45 summaries

Database :

Published Applications AA:*

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SUMMARIES

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3	830	78.1	175	9	US-10-227-884-74
4	830	78.1	175	9	US-10-230-163-74
5	830	78.1	175	9	US-10-218-631-74
6	830	78.1	175	9	US-10-230-338-74
7	609.5	57.3	170	9	US-10-078-337-8
8	555	52.2	166	9	US-10-066-500-54
9	555	52.2	166	9	US-10-078-337-6
10	555	52.2	166	9	US-10-227-884-116
11	555	52.2	166	9	US-10-002-796-54
12	555	52.2	166	9	US-10-066-273-54
13	555	52.2	166	9	US-10-066-494-54
14	555	52.2	166	9	US-10-230-163-116
15	555	52.2	166	9	US-10-066-269-54
16	555	52.2	166	9	US-10-066-193-54
17	555	52.2	166	9	US-10-066-211-54
18	555	52.2	166	9	US-10-218-631-116
19	555	52.2	166	9	US-10-230-338-116

20	555	52.2	166	10	US-09-956-751-1	Sequence 1, Appli
21	555	52.2	168	9	US-10-025-380-631	Sequence 631, App
22	555	52.2	168	10	US-09-922-217-631	Sequence 631, App
23	555	52.2	168	10	US-09-833-263-631	Sequence 4, Appli
24	448	42.1	183	9	US-10-078-337-7	Sequence 7, Appli
25	222	20.9	172	9	US-10-078-337-4	Sequence 194, App
26	222	20.9	172	9	US-10-227-884-194	Sequence 194, App
27	222	20.9	172	9	US-10-230-163-194	Sequence 194, App
28	222	20.9	172	9	US-10-218-631-194	Sequence 194, App
29	222	20.9	172	9	US-10-230-338-194	Sequence 194, App
30	222	20.9	172	10	US-09-954-846-1	Sequence 5, Appli
31	81.5	7.7	901	10	US-09-892-287-5	Sequence 7, Appli
32	81.5	7.7	968	10	US-09-969-528-7	Sequence 48, Appli
33	78	7.3	453	9	US-09-981-353-48	Sequence 10732, A
34	77	7.2	1049	10	US-09-815-242-10732	Sequence 13244, A
35	71.5	6.7	289	10	US-09-815-242-13244	Sequence 13582, A
36	71.5	6.7	289	10	US-09-815-242-13582	Sequence 6, Appli
37	306	7.1	306 <th>9</th> <th>US-10-017-910-7</th> <th>Sequence 8, Appli</th>	9	US-10-017-910-7	Sequence 8, Appli
38	71	6.7	529	10	US-09-849-566-6	Sequence 6, Appli
39	71	6.7	529	10	US-09-849-566-8	Sequence 8, Appli
40	71	6.7	529	10	US-09-907-859-6	Sequence 8, Appli
41	71	6.7	529	10	US-09-907-859-8	Sequence 2, Appli
42	70.5	6.6	481	10	US-09-994-185-2	Sequence 2, Appli
43	70.5	6.6	481	12	US-10-004-139-2	Sequence 189, App
44	70.5	6.6	917	9	US-10-001-835-189	Sequence 89, Appli
45	70.5	6.6	1252	9	US-10-047-542-89	

ALIGNMENTS

RESULT 1
US-10-078-337-2
; Sequence 2, Application US/10078337
; Publication No. US20030023068A1
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
DILLON, PATRICK J.
EBNER, REINHARD A.
ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESSES:
ADDRESS/SEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/078.337
FILING DATE: 21-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/916,576
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 175 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2
US-10-078-337-2

Query Match 84.6%; Score 899; DB 9; Length 175;
Best Local Similarity 100.0%; Pred. No. 2.6e-86;
Matches 175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 32 MEKIPVSAFLLLVALSYTLARDTTVPKAKKDKDSRPKLPQTLSRGWGDLIMTQTYEE 91
DB 1 MEKIPVSAFLLLVALSYTLARDTTVPKAKKDKDSRPKLPQTLSRGWGDLIMTQTYEE 60
QY 92 ALYKSTSKNPKLMIITHHLEDCPHSOALKKVFENKEIQKLAQFVLNLVYETTDKHLSP 151
DB 61 ALYKSTSKNPKLMIITHHLEDCPHSOALKKVFENKEIQKLAQFVLNLVYETTDKHLSP 120
QY 152 DQGYVPRIMEFVDPSTLVTRADITGRYSNRLYAYEPADTALLDNMKKALKLKTTEL 206
DB 121 DQGYVPRIMEFVDPSTLVTRADITGRYSNRLYAYEPADTALLDNMKKALKLKTTEL 175

RESULT 2

US-09-792-439-2
Sequence 2, Application US/09792439
Patent No. US2002011303A1

GENERAL INFORMATION:
APPLICANT: Boyd, Robert Simon
APPLICANT: Stamps, Alasdair Craig
APPLICANT: Terrett, Jonathan Alexander
APPLICANT: Tyson, Kerry Louise
TITLE OF INVENTION: Diagnostic and Therapeutic Methods
FILE REFERENCE: 2543-1-005N
CURRENT APPLICATION NUMBER: US/09/792,439
CURRENT FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: GB 0004576.5
PRIOR FILING DATE: 2000-02-25
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 175
TYPE: PRT
ORGANISM: human
US-09-792-439-2

Query Match 84.6%; Score 899; DB 10; Length 175;
Best Local Similarity 100.0%; Pred. No. 2.6e-86;
Matches 175; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 32 MEKIPVSAFLLLVALSYTLARDTTVPKAKKDKDSRPKLPQTLSRGWGDLIMTQTYEE 91
DB 1 MEKIPVSAFLLLVALSYTLARDTTVPKAKKDKDSRPKLPQTLSRGWGDLIMTQTYEE 60
QY 92 ALYKSTSKNPKLMIITHHLEDCPHSOALKKVFENKEIQKLAQFVLNLVYETTDKHLSP 151
DB 61 ALYKSTSKNPKLMIITHHLEDCPHSOALKKVFENKEIQKLAQFVLNLVYETTDKHLSP 120
QY 152 DQGYVPRIMEFVDPSTLVTRADITGRYSNRLYAYEPADTALLDNMKKALKLKTTEL 206
DB 121 DQGYVPRIMEFVDPSTLVTRADITGRYSNRLYAYEPADTALLDNMKKALKLKTTEL 175

RESULT 3

US-10-227-884-74
Sequence 74, Application US/10227884
Publication No. US20030027988A1

GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Desnoyers, Luc
APPLICANT: Gerdtisen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gutney, Austin L.

APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin L.
APPLICANT: Wood, William T.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3530PIC79
CURRENT APPLICATION NUMBER: US/10/227,884
CURRENT FILING DATE: 2002-08-26
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
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PRIOR FILING DATE: 1998-05-22
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-08-26
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PRIOR FILING DATE: 1998-08-31

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PRIOR FILING DATE:	1998-09-10
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PRIOR APPLICATION NUMBER:	60/099812
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PRIOR APPLICATION NUMBER:	60/108849
PRIOR FILING DATE:	1998-11-18
PRIOR APPLICATION NUMBER:	60/112422
PRIOR FILING DATE:	1998-12-15
PRIOR APPLICATION NUMBER:	60/113296
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PRIOR APPLICATION NUMBER:	60/115565
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PRIOR APPLICATION NUMBER:	60/119544
PRIOR FILING DATE:	1999-02-10
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PRIOR APPLICATION NUMBER:	60/125255
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PRIOR APPLICATION NUMBER:	60/126773

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PRIORITY DATE: 1999-03-29
PRIORITY APPLICATION NUMBER: 60/127887
PRIORITY FILING DATE: 1999-04-05
PRIORITY APPLICATION NUMBER: 60/130232
PRIORITY FILING DATE: 1999-04-21
PRIORITY APPLICATION NUMBER: 60/131022
PRIORITY FILING DATE: 1999-04-26
PRIORITY APPLICATION NUMBER: 60/131270
PRIORITY FILING DATE: 1999-04-27
PRIORITY APPLICATION NUMBER: 60/131291
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PRIORITY APPLICATION NUMBER: 60/131445
PRIORITY FILING DATE: 1999-04-28
PRIORITY APPLICATION NUMBER: 60/134287
PRIORITY FILING DATE: 1999-05-14
PRIORITY APPLICATION NUMBER: 60/140650
PRIORITY FILING DATE: 1999-06-22
PRIORITY APPLICATION NUMBER: 60/140723
PRIORITY FILING DATE: 1999-06-22
PRIORITY APPLICATION NUMBER: 60/141037
PRIORITY FILING DATE: 1999-06-23
PRIORITY APPLICATION NUMBER: 60/144758
PRIORITY FILING DATE: 1999-07-20
PRIORITY APPLICATION NUMBER: 60/145698
PRIORITY FILING DATE: 1999-07-26
PRIORITY APPLICATION NUMBER: 60/146222
PRIORITY FILING DATE: 1999-07-28
PRIORITY APPLICATION NUMBER: 60/146963
PRIORITY FILING DATE: 1999-08-03
PRIORITY APPLICATION NUMBER: 60/149320
PRIORITY FILING DATE: 1999-08-17
PRIORITY APPLICATION NUMBER: 60/149638
PRIORITY FILING DATE: 1999-08-17
PRIORITY APPLICATION NUMBER: 60/151733
PRIORITY FILING DATE: 1999-08-31
PRIORITY APPLICATION NUMBER: 60/164418
PRIORITY FILING DATE: 1999-11-09
PRIORITY APPLICATION NUMBER: 60/166361
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PRIORITY APPLICATION NUMBER: 60/169445
PRIORITY FILING DATE: 1999-12-07
PRIORITY APPLICATION NUMBER: 60/169495
PRIORITY FILING DATE: 1999-12-07
PRIORITY APPLICATION NUMBER: 60/169835

Query Match      78.1%; Score 830; DB 9; Length 175;
Best Local Similarity 91.4%; Pred. No. 4, le-79;
Matches 160; Conservative 8; Mismatches 7; Indels 0; Gaps 0

OY    32 MEKIPVSAFLLLVALSYTLARDTGVKPGAKKDTPKDSRPKLPTQLSKGWDOLIMTOTYEE 91
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB    1 MEKFVSAILLLVAISGLTAKDQTVKSGSKDKPKDSRPLPTQLSLGWGDOLIMTOTYEE 60

OY    92 ALYSKTSNKRPLMITHHHLDDECPHSQALKKVFAENKEIOCLAQFVLINLVYEETDKHNSP 151
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB    61 ALYSKTSNKRPLMVTIHHHLDDECPHSQALKKVFAENKEIOCLAQFVLINLVYEETDKHNSP 120

OY    152 DGQVPRITMFDPDSLTVRADITGRSNNRYAYEPADTALLDNMKKALIKLTTEL 206
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB    121 DGQVPRITVFDPDSLTVRADITGRISNNRIYAIEPSDTALLHDNMKKALKLKTTEL 175

RESULT 4
US-10-230-163-74
Sequence 74, Application US/10230163
Publication No. US2003003635A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Desnoyers, Luc
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
```

APPLICANT: Gurney, Austin L.
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin L.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3530PIC96
CURRENT APPLICATION NUMBER: US/10/230.163
PRIOR FILING DATE: 2002-08-28
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PRIOR APPLICATION NUMBER: 60/098544

PRIOR FILING DATE: 1998-08-31
PRIOR APPLICATION NUMBER: 60/099596
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099598
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PRIOR APPLICATION NUMBER: 60/100385
PRIOR FILING DATE: 1998-09-15
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PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101477
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101738
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101741
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101786
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PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106178
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/106248
PRIOR FILING DATE: 1998-10-29
PRIOR APPLICATION NUMBER: 60/106464
PRIOR FILING DATE: 1998-10-30
PRIOR APPLICATION NUMBER: 60/106905
PRIOR FILING DATE: 1998-11-03
PRIOR APPLICATION NUMBER: 60/108787
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: 60/108801
PRIOR FILING DATE: 1998-11-17
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PRIOR APPLICATION NUMBER: 60/113605
PRIOR FILING DATE: 1998-12-23
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PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/115558
PRIOR FILING DATE: 1999-01-12
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PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/115733
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/119549
PRIOR FILING DATE: 1999-02-10
PRIOR APPLICATION NUMBER: 60/123618
PRIOR FILING DATE: 1999-03-10
PRIOR APPLICATION NUMBER: 60/125259
PRIOR FILING DATE: 1999-03-19
PRIOR APPLICATION NUMBER: 60/125775
PRIOR FILING DATE: 1999-03-23

```

APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin L.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P350PIC14
CURRENT APPLICATION NUMBER: US/10/218,631
CURRENT FILING DATE: 2002-08-12
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
Remaining Prior Application data removed - See file wrapper or PALM.
NUMBER OF SEQ ID NOS: 246
SEQ ID NO 74
LENGTH: 175
TYPE: PRT
ORGANISM: Homo Sapien
US-10-218-631-74

Query Match      78.1%; Score 830; DB 9; Length 175;
Best Local Similarity 91.4%; Pred. No. 4,1e-79;
Matches 160; Conservative 8; Mismatches 7; Indels 0; Gaps 0;

QY 32 MEKIPVSAFLLVALSYTLRADTIVKPGAKKDKDSRPRLPOTLSRGMGDOLIMTYEE 91
Db 1 MEKFSVAILLLVALISGLTKDQTVSSSKKDKPSRPLPOTLSRGMGDOLIMTYEE 60

QY 92 ALYKSTSKNRPMLTIHHIDECPHSQALKKVFENKEIQKLAQFVLLNLVYTTDKHLSP 151
Db 61 ALYKSTSKNRPMLTVHHIDECPHSQALKKVFENKEIQKLAQFVLLNLVYTTDKHLSP 120

QY 152 DGQVYPRIVFDPDSLTVRADITGRVSNRLYAEAPDVALLLDNMKKALKLTEL 206
Db 121 DGQVYPRIVFDPDSLTVRADITGRVSNRLYAEPSDTALLDNMKKALKLTEL 175

RESULT 6
US-10-230-338-74
Sequence 74, Application US/10230338
Publication No. US20030044934A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Desnoyers, Luc
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin L.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

```

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APPLICATION NUMBER: US/10/078,337
FILING DATE: 21-Feb-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/916,576
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: STEEFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488-0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 170 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 8:
US-10-078-337-8

Query Match          57.3%  Score 609.5;  DB 9;  Length 170;
Best Local Similarity 71.3%;  Pred. No. 4.1e-56;
Matches 122;  Conservative 14;  Mismatches 26;  Indels 9;  Gaps 2.

OY 37 VSAFLLVALLVLTARLDITVRPKAKDKRDSRP-KLPOTLSGMDQILMTQTEBALYK 95
Db 7 LGACLLLVALLSXLA-----XXXKKDKRPIKGPOTLSGMDQILXWQTYEEGLXK 58
OY 96 SKTSNKRPLMIHHLDDECPHSAOLKKVFAENKEIOKLAQFVLNLVETTDKHLSPDGOY 155
Db 59 AXXSNKPLMIYHHLEDPCYSQALKKVFENKEIOELQAFVLNLVHETTDENLSPDGOY 118
OY 156 VPRIMFVDPSTVRADITGRYSNRLYAEAPDPTALLDNMKKALKLTEL 206
Db 119 VPRIMFVDPSTVRADITGRYGNRLYAEYDPDXPLLIXNMKKALKLTEL 169

RESULT 8
US-10-066-500-54
Sequence 54, Application US/10066500
Patent No. US2002017165A1
GENERAL INFORMATION:
APPLICANT: Avi J. Asnkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Botstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Eaton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Gerber
APPLICANT: Mary E. Gerritsen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Kljavin
APPLICANT: Jennie P. Mather
APPLICANT: Mary A. Napier
APPLICANT: James Pan
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William I. Wood
APPLICANT: Zemin Zhang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3130R1C7

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;; CURRENT APPLICATION NUMBER: US/10/066,500
;; CURRENT FILING DATE: 2002-02-01
;; PRIOR APPLICATION NUMBER: 10/002,796
;; PRIOR FILING DATE: 2001-11-15
;; PRIOR APPLICATION NUMBER: 60/056974
;; PRIOR FILING DATE: 1997-08-26
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;; PRIOR APPLICATION NUMBER: PCT/US98/18824
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PRIOR FILING DATE: 1999-06-02
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PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match 52.2%; Score 555; DB 9; Length 166;
Best Local Similarity 64.7%; Pred. No. 2e-50;
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4;

Qy 41 LLLVALSTYLRADTYVKGAKKDTKDSRPKLPOTLISRGWGDDLIWQYEEALYKSTSN 100
Db 11 LLLVTVSSNLA--IAIK-----KEKRP--PQTLISRGWGDDITWQYEEGLFYAOKSK 59
Qy 101 KPLMIHHLEDCPHSQALKVFAENKEIOKLAE-QVLLNLVYETTDKHLSPDGOYVRI 159
Db 60 KPLMIHHLEDCQYSQLKVFQNEIEQMAQNKFTIMLNHETTDKHLSPDGOYVRI 119
Qy 160 MEVDSLSYVRADITGRYSNRLAYEPADTALLDMKKKALKLTEL 206
Db 120 MEVDSLSYVRADITGRYSNRLTYTEPRDLPLLIENMKKALKRLIOSEL 166

RESULT 9
US-10-078-337-6
Sequence 6, Application US/10078337
Publication No. US20030023068A1
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
DILLON, PATRICK J.
EBNER, REINHARD
ADDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/078,337
FILING DATE: 21-Feb-2002
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/916,576
FILING DATE: <unknown>
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.

REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 166 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 6:
US-10-078-337-6

Query Match 52.2%; Score 555; DB 9; Length 166;
Best Local Similarity 64.7%; Pred. No. 2e-50;
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4;

Qy 41 LLLVALSTYLRADTYVKGAKKDTKDSRPKLPOTLISRGWGDDLIWQYEEALYKSTSN 100
Db 11 LLLVTVSSNLA--IAIK-----KEKRP--PQTLISRGWGDDITWQYEEGLFYAOKSK 59
Qy 101 KPLMIHHLEDCPHSQALKVFAENKEIOKLAE-QVLLNLVYETTDKHLSPDGOYVRI 159
Db 60 KPLMIHHLEDCQYSQLKVFQNEIEQMAQNKFTIMLNHETTDKHLSPDGOYVRI 119
Qy 160 MEVDSLSYVRADITGRYSNRLAYEPADTALLDMKKKALKLTEL 206
Db 120 MEVDSLSYVRADITGRYSNRLTYTEPRDLPLLIENMKKALKRLIOSEL 166

RESULT 10
US-10-227-884-116
Sequence 116, Application US/10227884
Publication No. US20030027988A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Desnoyers, Luc
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Smith, Victoria
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin L.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3530P1C79
CURRENT APPLICATION NUMBER: US/10/227,884
CURRENT FILING DATE: 2002-08-26
PRIOR APPLICATION NUMBER: 10/119,480
PRIOR FILING DATE: 2002-04-09
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063549
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/069873
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/081819


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PRIORITY APPLICATION NUMBER: PCT/US98/25190
PRIORITY FILING DATE: 1998-11-25
PRIORITY APPLICATION NUMBER: PCT/US99/05028
PRIORITY FILING DATE: 1999-03-08
PRIORITY APPLICATION NUMBER: PCT/US99/12252
PRIORITY FILING DATE: 1999-06-02
PRIORITY APPLICATION NUMBER: PCT/US99/20111
PRIORITY FILING DATE: 1999-09-01
PRIORITY APPLICATION NUMBER: PCT/US99/20594
PRIORITY FILING DATE: 1999-09-08
PRIORITY APPLICATION NUMBER: PCT/US99/21090
PRIORITY FILING DATE: 1999-09-15
PRIORITY APPLICATION NUMBER: PCT/US99/21547
PRIORITY FILING DATE: 1999-09-15
PRIORITY APPLICATION NUMBER: PCT/US99/28301

Query Match 52.2% Score 555; DB 9; Length 166;
Best Local Similarity 64.7%; Pred. No. 2e-50;
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4

QY 41 LLLALSTYLRDPTVKKGAKKDTKDSRPKLPTQTSRGGDOLITWQYEEALYKSTSN 100
Db 11 LLLVTVSSNLA--IAIK-----KEKRP--PQTLISRGCGDDITWQYEEELFLFAQKSK 59
QY 101 KPLMIIHHLDECPSQALKKVFAPENKEIQKLAE-QFVLNLIVYETTDKHLSPDGQVPR 159
Db 60 KPLMVIHHLDECQYQSQALKKVFAPQNEEIQEMAKNFIMLNHETTDKHLSPDGQVPR 119
QY 160 MEVDPSSLTVRADITGRYSNRLVATVPADTALLDDMMKKAALKLTREL 206
Db 120 MEVDPSSLTVRADIAGRYSNRLTYETPRDLPLLIENMKKALRLIOSEL 166

RESULT 12
US-10-066-273-54
Sequence 54, Application US/10066273
Publication No. US20030032062A1
GENERAL INFORMATION:
APPLICANT: Avi J. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Botstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Eaton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Gerber
APPLICANT: Mary E. Gerritsen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Kjaer
APPLICANT: Jennie P. Mather
APPLICANT: Mary A. Napier
APPLICANT: James Pan
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William I. Wood
APPLICANT: Zemin Zang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NOCLEIC
FILE REFERENCE: P3130R1C2
CURRENT APPLICATION NUMBER: US/10/066, 273
CURRENT FILING DATE: 2002-02-01
PRIORITY APPLICATION NUMBER: 10/002, 796
PRIORITY FILING DATE: 2001-11-15
PRIORITY APPLICATION NUMBER: 60/056974
PRIORITY FILING DATE: 1997-08-26
PRIORITY APPLICATION NUMBER: 60/059115

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;; PRIOR FILING DATE: 1997-09-17
;; PRIOR APPLICATION NUMBER: 60/059263
;; PRIOR FILING DATE: 1997-09-18
;; PRIOR APPLICATION NUMBER: 60/059588
;; PRIOR FILING DATE: 1997-09-17
;; PRIOR APPLICATION NUMBER: 60/062285
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/062816
;; PRIOR FILING DATE: 1997-10-24
;; PRIOR APPLICATION NUMBER: 60/063082
;; PRIOR FILING DATE: 1997-10-31
;; PRIOR APPLICATION NUMBER: 60/063329
;; PRIOR FILING DATE: 1997-10-27
;; PRIOR APPLICATION NUMBER: 60/063733
;; PRIOR FILING DATE: 1997-10-29
;; PRIOR APPLICATION NUMBER: 60/066364
;; PRIOR FILING DATE: 1997-11-21
;; PRIOR APPLICATION NUMBER: 60/066840
;; PRIOR FILING DATE: 1997-11-25
;; PRIOR APPLICATION NUMBER: 60/069694
;; PRIOR FILING DATE: 1997-12-16
;; PRIOR APPLICATION NUMBER: 60/074086
;; PRIOR FILING DATE: 1998-02-09
;; PRIOR APPLICATION NUMBER: 60/074092
;; PRIOR FILING DATE: 1998-02-09
;; PRIOR APPLICATION NUMBER: 60/079294
;; PRIOR FILING DATE: 1998-03-25
;; PRIOR APPLICATION NUMBER: 60/081049
;; PRIOR FILING DATE: 1998-04-08
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;; PRIOR FILING DATE: 1998-08-10
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;; PRIOR FILING DATE: 1998-08-18
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;; PRIOR FILING DATE: 1998-09-09
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;; PRIOR APPLICATION NUMBER: 08/933821
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;; PRIOR FILING DATE: 1998-08-19

;; PRIOR APPLICATION NUMBER: 09/136828
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;; PRIOR APPLICATION NUMBER: 09/158342
;; PRIOR FILING DATE: 1998-09-21
;; PRIOR APPLICATION NUMBER: 09/180997
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 09/202088
;; PRIOR FILING DATE: 1998-12-08
;; PRIOR APPLICATION NUMBER: 09/254311
;; PRIOR FILING DATE: 1999-03-03
;; PRIOR APPLICATION NUMBER: 09/254460
;; PRIOR FILING DATE: 1999-03-09
;; PRIOR APPLICATION NUMBER: 09/254465
;; PRIOR FILING DATE: 1999-03-05
;; PRIOR APPLICATION NUMBER: 09/284663
;; PRIOR FILING DATE: 1999-04-15
;; PRIOR APPLICATION NUMBER: 09/332928
;; PRIOR FILING DATE: 1999-06-14
;; PRIOR APPLICATION NUMBER: 09/332929
;; PRIOR FILING DATE: 1999-06-14
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;; PRIOR FILING DATE: 1999-06-14
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;; PRIOR APPLICATION NUMBER: 09/423741
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;; PRIOR FILING DATE: 2001-06-01
;; PRIOR APPLICATION NUMBER: 09/886342
;; PRIOR FILING DATE: 2001-06-19
;; PRIOR APPLICATION NUMBER: PCT/US98/14552
;; PRIOR FILING DATE: 1998-07-14
;; PRIOR APPLICATION NUMBER: PCT/US98/18824
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: PCT/US98/19093
;; PRIOR FILING DATE: 1998-09-14
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: 1998-09-16
;; PRIOR APPLICATION NUMBER: PCT/US98/19437
;; PRIOR FILING DATE: 1998-09-17
;; PRIOR APPLICATION NUMBER: PCT/US98/24855

[illegible]

PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
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PRIOR APPLICATION NUMBER: 09/158342
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PRIOR FILING DATE: 1999-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/332928
PRIOR FILING DATE: 1999-06-14
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PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333075
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333077
PRIOR FILING DATE: 1999-06-14
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PRIOR FILING DATE: 2000-03-09
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PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/709238
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/767609
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 09/802706
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 09/808689
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 09/866028
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PRIOR APPLICATION NUMBER: 09/870574
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: 09/872035
PRIOR FILING DATE: 2001-06-01
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PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: PCT/US98/14552
PRIOR FILING DATE: 1998-07-14
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PRIOR APPLICATION NUMBER: PCT/US98/19093
PRIOR FILING DATE: 1998-09-14
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/19437
PRIOR FILING DATE: 1998-09-17

PRIOR APPLICATION NUMBER: PCT/US98/24855
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: 1998-12-01
PRIOR APPLICATION NUMBER: PCT/US98/25190
PRIOR FILING DATE: 1998-11-25
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: PCT/US99/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match 52.2%; Score 555; DB 9; Length 166;
Best Local Similarity 64.7%; Pred. No. 2e-50;
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4;

Qy 41 LLLVALSTYLTARTYKPKAKDKTSRKLPTLSRGWGDDLIWQTYEEALYKSKTSN 100
Db 11 LLLVTVSSNLA--IAIK-----KEKRP--PQTLSRGWGDDLTWQTYEEGLFYAKSK 59

Qy 101 KPLMIITHLDECPHSOALKKVEAKKEIOIAE-QFVLNIVYETTDKHLSPDGQYVPT 159
Db 60 KPLMIITHLDECPHSOALKKVEAKKEIOIAE-QFVLNIVYETTDKHLSPDGQYVPT 119

Qy 160 MEVDPSTLVTRADITGRYSNRILAYEPADTALLIDNNKALKLIKTEL 206
Db 120 MEVDPSTLVTRADITGRYSNRILAYEPADTALLIDNNKALKLIKTEL 166

RESULT 14
US-10-230-163-116
; Sequence 116, Application US/10230163
; Publication No. US20030036635A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria L.
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530P1C96
; CURRENT FILING DATE: US/10/230,163
; PRIOR APPLICATION NUMBER: 2002-08-28
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063549
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/069873
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/079656

[illegible]

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: PRIOR FILING DATE: 1999-07-28
: PRIOR APPLICATION NUMBER: 60/146963
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: PRIOR FILING DATE: 1999-08-17
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: PRIOR APPLICATION NUMBER: 60/164418
: PRIOR FILING DATE: 1999-11-09
: PRIOR APPLICATION NUMBER: 60/166361
: PRIOR FILING DATE: 1999-11-16
: PRIOR APPLICATION NUMBER: 60/169445
: PRIOR FILING DATE: 1999-12-07
: PRIOR APPLICATION NUMBER: 60/169495
: PRIOR FILING DATE: 1999-12-07
: PRIOR APPLICATION NUMBER: 60/169835

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Query Match 52.2%; Score 555; DB 9; Length 166;
Best Local Similarity 64.7%; Pred. No. 2e-50;
Matches 108; Conservative 28; Mismatches 19; Indels 12; Gaps 4;

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QY 41 LLLVALSTLRADTTVKGAKKDTKDSRPKLPTLSRGWGDLITQTYEEALYKSTSN 100
DB 11 LLLVTVSSNLA--IAIK-----KEKRP--PQTLSRGWGDDITVWQYEEGLFYAKRSK 59
QY 101 KPLMIHHLDCPSHQAQKVFENKEIOKLAE-QEVLNLVYETTDKHLSPDQGYVRI 159
DB 60 KPLWVHHLLECCOYSAQAKKFAONEBIOEMAKNFIMLNHMETTDKLNLSDDGYVRI 119
QY 160 MEVDESLTVRADITGRYSNRLYAVEPADTALLDNMKKALKLKTTEL 206
DB 120 MEVPSLTVRADITGRYSNRLYETPEPDLPLTIENMKKALRLIQSEL 166

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RESULT 15
US-10-066-269-54
: Sequence 54, Application US/10066269
: Publication No. US20030040014A1
: GENERAL INFORMATION:
: APPLICANT: Avi J. Ashkenazi
: APPLICANT: Kevin P. Baker
: APPLICANT: David A. Botstein
: APPLICANT: Luc Desnoyers
: APPLICANT: Dan L. Eaton
: APPLICANT: Napoleone Ferrara
: APPLICANT: Sherman Fong
: APPLICANT: Wei-Qiang Gao
: APPLICANT: Hanspeter Gerber
: APPLICANT: Mary E. Gertlisen
: APPLICANT: Audrey Goddard
: APPLICANT: Paul J. Godowski
: APPLICANT: Austin L. Gurney
: APPLICANT: Ivar J. Kjaevlin
: APPLICANT: Jennie P. Mather
: APPLICANT: Mary A. Napier
: APPLICANT: James Pan
: APPLICANT: Nicholas F. Paoni
: APPLICANT: Margaret Ann Roy
: APPLICANT: Timothy A. Stewart
: APPLICANT: Daniel Tumas
: APPLICANT: Colin K. Watanabe
: APPLICANT: P. Mickey Williams
: APPLICANT: William I. Wood
: APPLICANT: Zemin Zang
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: TITLE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P3130R1C4
: CURRENT APPLICATION NUMBER: US/10/066,269
: CURRENT FILING DATE: 2002-02-01
: PRIOR APPLICATION NUMBER: 10/002,796
: PRIOR FILING DATE: 2001-11-15

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: PRIOR APPLICATION NUMBER: 60/056974
: PRIOR FILING DATE: 1997-08-26
: PRIOR APPLICATION NUMBER: 60/059115
: PRIOR FILING DATE: 1997-09-17
: PRIOR APPLICATION NUMBER: 60/059263
: PRIOR FILING DATE: 1997-09-18
: PRIOR APPLICATION NUMBER: 60/059588
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: PRIOR APPLICATION NUMBER: 09/136801

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PRIOR FILING DATE:	1998-08-19	PRIOR APPLICATION NUMBER:	09/136804
PRIOR FILING DATE:	1998-08-19	PRIOR APPLICATION NUMBER:	09/136628
PRIOR FILING DATE:	1998-08-19	PRIOR APPLICATION NUMBER:	09/158342
PRIOR FILING DATE:	1998-09-21	PRIOR APPLICATION NUMBER:	09/180997
PRIOR FILING DATE:	1998-09-10	PRIOR APPLICATION NUMBER:	09/202088
PRIOR FILING DATE:	1998-12-08	PRIOR APPLICATION NUMBER:	09/254311
PRIOR FILING DATE:	1999-03-03	PRIOR APPLICATION NUMBER:	09/254460
PRIOR FILING DATE:	1999-03-09	PRIOR APPLICATION NUMBER:	09/254465
PRIOR FILING DATE:	1999-03-05	PRIOR APPLICATION NUMBER:	09/284663
PRIOR FILING DATE:	1999-04-15	PRIOR APPLICATION NUMBER:	09/332928
PRIOR FILING DATE:	1999-06-14	PRIOR APPLICATION NUMBER:	09/332929
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1	PRIOR APPLICATION NUMBER: PCT/US98/194373
2	PRIOR FILING DATE: 1998-09-17
3	PRIOR APPLICATION NUMBER: PCT/US98/248555
4	PRIOR FILING DATE: 1998-11-20
5	PRIOR APPLICATION NUMBER: PCT/US98/251080
6	PRIOR FILING DATE: 1998-12-01
7	PRIOR APPLICATION NUMBER: PCT/US98/251500
8	PRIOR FILING DATE: 1998-11-25
9	PRIOR APPLICATION NUMBER: PCT/US99/050280
10	PRIOR FILING DATE: 1999-03-08
11	PRIOR APPLICATION NUMBER: PCT/US99/123232
12	PRIOR FILING DATE: 1999-06-02
13	PRIOR APPLICATION NUMBER: PCT/US99/201111
14	PRIOR FILING DATE: 1999-09-01
15	PRIOR APPLICATION NUMBER: PCT/US99/205944
16	PRIOR FILING DATE: 1999-09-08
17	PRIOR APPLICATION NUMBER: PCT/US99/210990
18	PRIOR FILING DATE: 1999-09-15
19	PRIOR APPLICATION NUMBER: PCT/US99/215447

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Dd	60 KPLMWIHLDEPCQYSAQLAKKYFAONEIEOMANKFFIMLNHEHTDKMLSPDGQVPR	119	ITHLDEPCQYSAQLAKKYFAONEIEOMANKFFIMLNHEHTDKMLSPDGQVPR			
QY	160 MFVPSLTVRADITGRYSNRILAYEPADATALLDMNNKRAKLKTTEL	206	MFVPSLTVRADITGRYSNRILAYEPADATALLDMNNKRAKLKTTEL			
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Search completed: March 13, 2003, 15:38:42
Job time : 28 secs

GenCore version 5.1.4.p5.4578
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OM protein - nucleic search, using frame_plus_p2n model

Run on: March 13, 2003, 18:20:01 ; Search time 39 Seconds
(without alignments)
1619.882 Million cell updates/sec

Title: US-09-674-266A-181

Perfect score: 1063

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Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-NO_XLPHY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV.TIMEOUT=120
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-YGAPOP=10 -YGAPEXT=0.5 -DELop=6 -DELEXT=7

Database :

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	991	93.2	875	4	US-08-916-576B-1. Sequence 1, Appli
2	961	90.4	1689	4	US-09-247-155-61. Sequence 61, Appli
3	914	86.0	940	4	US-09-247-155-149. Sequence 149, App
4	856.5	80.6	793	4	US-09-040-984-78. Sequence 78, Appli
5	856.5	80.6	793	4	US-09-123-912-78. Sequence 78, Appli
6	856.5	80.6	793	4	US-09-643-597-78. Sequence 78, Appli
7	683	64.3	401	4	US-09-221-298-32. Sequence 32, Appli
8	642	60.4	386	4	US-08-916-576B-35. Sequence 35, Appli
9	631	59.4	404	4	US-09-643-597-282. Sequence 282, App
10	535	52.2	732	4	US-08-916-576B-5. Sequence 5, Appli
11	487.5	45.9	373	4	US-08-916-576B-36. Sequence 36, Appli
12	458.5	43.1	489	4	US-08-916-576B-9. Sequence 9, Appli

13	376.5	35.4	506	4	US-08-916-576B-10. Sequence 10, Appli
14	253	23.8	158	4	US-08-916-576B-37. Sequence 37, Appli
15	252	23.7	159	4	US-09-030-607-209. Sequence 209, App
16	252	23.7	159	4	US-09-605-785-209. Sequence 209, App
17	252	23.7	159	4	US-09-439-313-209. Sequence 209, App
18	252	23.7	159	4	US-09-352-616A-209. Sequence 209, App
19	252	23.7	159	4	US-09-232-149A-209. Sequence 209, App
20	222	20.9	1423	4	US-08-916-576B-3. Sequence 3, Appli
21	183.5	17.3	136	4	US-08-916-576B-38. Sequence 38, Appli
22	158	14.9	302	4	US-08-916-576B-19. Sequence 19, Appli
23	147.5	13.9	310	4	US-08-916-576B-41. Sequence 41, Appli
24	129	12.1	311	4	US-08-916-576B-40. Sequence 40, Appli
25	104	9.8	329	4	US-08-916-576B-12. Sequence 12, Appli
26	104	9.8	329	4	US-08-916-576B-13. Sequence 13, Appli
27	104	9.8	329	4	US-08-916-576B-14. Sequence 14, Appli
28	104	9.8	329	4	US-08-916-576B-15. Sequence 15, Appli
29	101	9.5	330	4	US-08-916-576B-16. Sequence 16, Appli
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45	79.5	7.5	7175	3	US-08-450-362-8. Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-08-916-576B-1
Sequence 1, Application US/08916576B
Patent No. 6171816
GENERAL INFORMATION:
APPLICANT: YU, GUO-LIANG
APPLICANT: DILLON, PATRICK J.
APPLICANT: EBNER, REINHARD
APPLICANT: ENDRESS, GREGORY A.
TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESSES:
ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/916.576B
FILING DATE:
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/024.347
FILING DATE: 23-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: STERPE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600

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; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 875 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 71..595
; NAME/KEY: mat-peptide
; LOCATION: 131..595
; FEATURE:
; NAME/KEY: sig-peptide
; LOCATION: 71..130
US-08-916-576B-1

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Score: 991.00 Matches: 193
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Best Local Similarity: 99.48% Mismatches: 1
Query Match: 93.23% Indels: 0
Gaps: 0

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US-09-674-266A-181 (1-206) x US-08-916-576B-1 (1-875)

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QY 53 AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro 72
Db 134 GATACCACTCAAGCAAACTGGAGCCAAAGAGACAAAGAGCTCGACCCAACTGCC 193
QY 73 GlnThrLeuSerArgGlyTrpGlyAspGlnLeuIleTrpThrGlnTrpGlnGluAla 92
Db 194 CAGACCCCTCTCCAGAGTGGGGTGACCAACTCATCTGGACTCAGACATATGAAGAACT 253
QY 93 LeuTrpLysSerLysThrSerAsnLysProLeuMetIleIleHisLysLeuAspGluCys 112
Db 254 CTATATAATCCAGACAGACAAACCTTGATGATTTATTCATCTGAGTGGAGTGC 313
QY 113 ProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla 132
Db 314 CCACACAGCTCAAGCTTAAAGAAAGTGTTCGTAATAATAAGAAATCCAGAAATTGGCA 373
QY 133 GlnGlnPheValLeuLeuAsnLeuValTrpGlnThrTrpAspLysHisLeuSerProAsp 152
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QY 173 ThrGlyArgTrpSerAsnArgLeuTrpAlaTrpGluProAlaAspThrAlaLeuLeuLeu 192
Db 494 ACTGGAAGATATTCAAATCGCTCTATGCTTACGAACCTGCAGATACAGCTGTGCTT 553
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RESULT 2
US-09-247-155-61
; Sequence 61, Application US/09247155A
; Patent No. 6312922

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; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, Jean-Baptiste
; APPLICANT: Duchet, Americ
; APPLICANT: Bouguet, Lydie
; TITLE OF INVENTION: Complementary DNAs
; FILE REFERENCE: GENSET.021A
; CURRENT APPLICATION NUMBER: US/09/247,155A
; EARLIER FILING DATE: 1999-02-09
; EARLIER APPLICATION NUMBER: 60/074,121
; EARLIER FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: 60/081,563
; EARLIER FILING DATE: 1998-04-13
; EARLIER APPLICATION NUMBER: 60/096,116
; EARLIER FILING DATE: 1998-08-10
; EARLIER APPLICATION NUMBER: 60/099,273
; EARLIER FILING DATE: 1998-10-04
; NUMBER OF SEQ ID NOS: 182
; SOFTWARE: Patent.pm
; SEQ ID NO: 61
; LENGTH: 1689
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 51..575
; FEATURE:
; NAME/KEY: sig-peptide
; LOCATION: 51..110
; OTHER INFORMATION: Von Heijne matrix
; OTHER INFORMATION: seq AFLVLAISTLA/RD
; NAME/KEY: polyA-signal
; LOCATION: 1653..1658
; FEATURE:
; NAME/KEY: polyA-site
; LOCATION: 1674..1689
US-09-247-155-61

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Score: 961.00 Matches: 189
Percent Similarity: 96.92% Conservative: 0
Best Local Similarity: 96.92% Mismatches: 0
Query Match: 90.40% Indels: 6
Gaps: 1

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US-09-674-266A-181 (1-206) x US-09-247-155-61 (1-1689)

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QY 52 ArgAspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeu 71
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QY 72 ProGlnThrLeuSerArgGlyTrpGlyAspGlnLeuIleTrpThrGlnTrpGlnGlu 91
Db 171 CCCGAGACCTCTCCAGAGTGGGGTGACCAACTCATCTGAGCTCAGACATATGAAGAA 230
QY 92 AlaLeuTrpLysSerLysThrSerAsnLysProLeuMetIleIleHisLysLeuAspGlu 111
Db 231 GCTCTATATAATCCAAAGCAAGCAAAACCTTGATGATTTATTCATCTGAGTGGATGAG 290
QY 112 CysProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeu 131
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Db	471	ATCACTGGAAATATTTCAATACGTCCTCTATCTTACGCAACCTGCAGATACAGCTGTGTG	530
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Sequence 149, Application US/09247155A			
Patent No. 6312822			
GENERAL INFORMATION:			
APPLICANT: Dumas Milne Edwards, Jean-Baptiste			
APPLICANT: Duclert, Aymeric			
APPLICANT: Bouqueleret, Lydie			
TITLE OF INVENTION: Complementary DNAs			
FILE REFERENCE: GENSET.021A			
CURRENT APPLICATION NUMBER: US/09/247,155A			
CURRENT FILING DATE: 1999-02-09			
EARLIER APPLICATION NUMBER: 60/074,121			
EARLIER FILING DATE: 1998-02-09			
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EARLIER FILING DATE: 1998-04-13			
EARLIER APPLICATION NUMBER: 60/096,116			
EARLIER FILING DATE: 1998-08-10			
EARLIER APPLICATION NUMBER: 60/099,273			
EARLIER FILING DATE: 1998-10-04			
NUMBER OF SEQ ID NOS: 182			
SOFTWARE: Patent.pm			
SEQ ID NO 149			
LENGTH: 940			
TYPE: DNA			
ORGANISM: Homo sapiens			
FEATURE:			
NAME/KEY: CDS			
LOCATION: 177..569			
FEATURE:			
NAME/KEY: sig_peptide			
LOCATION: 177..236			
OTHER INFORMATION: Von Heijne matrix			
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LOCATION: 931..939			
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QY	21	GlnGlyValGTrPValArgLysSerArgValAlaMetGluLysIleProValSerAlaPhe	40
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Db	204	TTGGCTCTTGtGGCCCTCTCTACACTCTGGCCAGAAATACCAAGTCAAACTCGAGCC	253
QY	61	LysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgLysTrpGly	80
Db	264	AAAAAGGACACAAAGGAGCTCGAACCCAAACTGCCCAAGCCCTCTCCAGAGGTTGGGT	323
QY	81	AspGlnLeuIleTrpThrGlnThrTyrGluGluAlaLeuTyrLysSerLysThrSerAsn	100
Db	324	GACCAACTCATCTGCACACACACATATGAARARCTCTATMTAAATCCARACAAAGCAAC	383
QY	101	LysProLeuMetIleIleHisHisLeuAspGluLysProHisSerGlnAlaLeuLys	120
Db	384	AAACCCCTTGATGATTATTCACACTGGATGADTGADGCCACACACTCAAGCTTTAAAAAA	443
QY	121	ValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheValLeuLeuAsnLeu	140
Db	444	KTGTTTGCTGAAATTAARAATTCAGAAATTGGCAANCAAGTTTGTCCTCTCAACTG	503
QY	141	ValTyrGluThrThrAspLysHisLeuSerProAspGlyGlnTyrVal-ProArgIleMe	160
Db	504	GTTATGAAACACTGCACAAACCTTTCTCTGATGGCCATATKTCGCCCMGATTTAT	563
QY	160	PheValAspProSerLeuThrValAlaArgAlaAspIleThrGlyArgTyrSerAsnArgLe	180
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Db	624	CTATGCTTACCAACTGCAGATACAGCTGTCTTCTTGACACATGAAGAAAGCTCTCA	683
QY	200	sLeuLeuLysThrGluLeu 206	
Db	684	GTTGCTGACACTGAATTG 702	
RESULT 4			
US-09-040-984-78			
; Sequence 78, Application US/09040984			
; Patent No. 6210883			
; GENERAL INFORMATION:			
; APPLICANT: Reed, Steven G.			
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS			
; NUMBER OF SEQUENCES: 86			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: SEED AND BERRY LLP			
; STREET: 6300 Columbia Center, 701 Fifth Avenue			
; CITY: Seattle			
; STATE: WA			
; COUNTRY: USA			
; ZIP: 98104			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Diskette			
; COMPUTER: IBM Compatible			
; OPERATING SYSTEM: DOS			
; SOFTWARE: FASTED for Windows Version 2.0			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: US/09/040.984			
; FILING DATE: 18-MAR-1998			
; CLASSIFICATION:			
; ATTORNEY/AGENT INFORMATION:			
; NAME: Makl, David J.			
; REGISTRATION NUMBER: 31,392			
; REFERENCE/DOCKET NUMBER: 210121.456			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: 206-622-4900			

```

; TELEFAX: 206-282-6031
;
; TELEX:
;
; INFORMATION FOR SEQ ID NO: 78:
;
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 793 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;
US-09-040-984-78

Alignment Scores:
Pred. No.: 6.17e-100      Length: 793
Score: 856.50           Matches: 177
Percent Similarity: 94.74%      Conservative: 3
Best Local Similarity: 93.16%    Mismatches: 9
Query Match: 80.57%            Indels: 3
DB: 4                      Gaps: 1

US-09-674-266A-181 (1-206) x US-09-040-984-78 (1-793)
QY 14 HlsProSerArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMetGlu 33
Db 2 CATCTACCGCCGCGACTCACACAGCGAGGCGGTGAGGAATCCAGAGTTCCTGAG 61
QY 34 LysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArgasp 53
Db 62 AAATTCAGCTGAGCATCTCTGCTGCTGCGCCCTCTCTACACTGCGCCAGAGAT 121
QY 54 ThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGln 73
Db 122 ACCACAGCTCAACCTGGGAGCCAAAGAGACAAAGACTCTCGACCAACTGCCCGAG 181
QY 74 ThrLeuSerArgGlyTrpGlyLysAspGlnLeuIleTrpThrGlnThrTyrGluValaLeu 93
Db 182 ACCCTCTCAGAGGTGGGGTGAGCAACTCATCTGAGACTCAGACATAGAGAACTCTA 241
QY 94 TyrLysSerLysThrSerAsnLysProLeuMetIleIleHsLysLeuAspGluCysPro 113
Db 242 TATTAATCCAGACAGACAAACCCCTTGATGATTAATTCACCTGATGAGTGGCCCA 301
QY 114 HlsSerGlnAlaLeuLysLysValPheAlaGlnAsnLysGlnIleGlnLysLeuAlaGlu 133
Db 302 CACAGTCACGCTTTAAAGAAAGTGTTCCTGAATAAAGAAATCCAGAAATGGCAAG 361
QY 134 GlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHsLysSerProAspGly 153
Db 362 CAGTTTGCTCCTCAATCTGTTATGAAACACTGACAAACCTTTCCTGATGGC 421
QY 154 GlnTyrValProArgLileMetPheValAspProSerLeuThrValArgAlaAspIleThr 173
Db 422 CAGTATGT-CCCAGAGATTATGTTGTGGACCCATCTGAGACAGTTGAAGCCGATATCCTG 480
QY 174 GlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuAsp 193
Db 481 GGAAGATATTTCNAACCGCTCATGCTTACAAACT-GCAGATACGCTCTGTGCTTGACA 539
QY 194 AsnMetLysLysAlaLeuLysLeuLeuLys 203
Db 540 CAT---GAAAAAGCTCTCAAGTGTGCTNAA 566

RESULT 5
US-09-123-912-78
; Sequence 78, Application US/09123912A
; Patient No. 6312695
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Wang, Tonglong
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY OF LUNG CANCER
; FILE REFERENCE: 210121.455C1
; CURRENT APPLICATION NUMBER: US/09/123,912A
; CURRENT FILING DATE: 1998-07-27
; PRIOR APPLICATION NUMBER: 09/040,802
; PRIOR FILING DATE: 1998-03-18
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; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 78
; LENGTH: 793
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (309)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (492)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (563)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (657)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (660)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (703)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (708)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (710)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (711)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (732)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (740)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (748)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (758)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (762)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (765)
; OTHER INFORMATION: where n is a, c, g or t
; NAME/KEY: modified_base
; LOCATION: (787)
; OTHER INFORMATION: where n is a, c, g or t
;
US-09-123-912-78

Alignment Scores:
Pred. No.: 6.17e-100      Length: 793
Score: 856.50           Matches: 177
Percent Similarity: 94.74%      Conservative: 3
Best Local Similarity: 93.16%    Mismatches: 9
Query Match: 80.57%            Indels: 3
DB: 4                      Gaps: 1

US-09-674-266A-181 (1-206) x US-09-123-912-78 (1-793)
QY 14 HlsProSerArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMetGlu 33
Db 2 CATCTACCGCCGCGACTCACACAGCGAGGCGGTGAGGAATCCAGAGTTCCTGAG 61
QY 34 LysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArgasp 53
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Db 62 AAAATTCAGTGTGACATCTTGGCTCTGTGGCCCTCTCTACACTGGCCAGAGAT 121
Qy 54 ThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGln 73
Db 122 ACCACAGTCAACCTGGAGCCAAAAGGACAAAGAGACTCTGACCCAAAGTGGCCAG 181
Qy 74 ThrLeuSerArgGlyTyrPglLysPglLeuLeuIleTrrPthGlnThrTyrGlnGluAlaLeu 93
Db 182 ACCCTCTCCAGAGTGGGGGTGACCACTCATCTGACACATATGAGAGCTCTA 241
Qy 94 TyrLysSerLysThrSerAsnLysProLeuMetIleIleHisLysLeuAspGlyCysPro 113
Db 242 TATAAATCCAGACAAGCAAAACCCCTGATGATATTATTCATCAGCTTGATGAGTGCACA 301
Qy 114 HisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGlu 133
Db 302 CACAGTCNAGCTTTAAAGAAAGTGGTGTGAAAATAAGAAATCCAGAAATGGCAGAG 361
Qy 134 GlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAspGly 153
Db 362 CAGTTGTCTCTCTCATCTGGTTATGAAACACTGACAAACACCTTCTCTCTGATGGC 421
Qy 154 GlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThr 173
Db 422 CAGTATGT-CCAGAGATATGTTTGTGGACCATCTCTGACAGTGAAGCCGATATCCTG 480
Qy 174 GlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuAsp 193
Db 481 GGAAGATATTCAACCGTCTATGCTTACAAACT-GCAGATACGCTCTGCTTGGTGCACA 539
Qy 194 AsnMetLysLysAlaLeuLysLeuLys 203
Db 540 CAT---GAAAAGCTCTCAAGTTGCTNAAA 566

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RESULT 6

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US-09-643-597-78
; Sequence 78, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aljun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455E11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 78
; LENGTH: 793
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(793)
; OTHER INFORMATION: n = A,T,C or G
US-09-643-597-78

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Alignment Scores:

Pred. No.:	6,17e-100	Length:	793
Score:	856.50	Matches:	177
Percent Similarity:	94.74%	Conservative:	3
Best Local Similarity:	93.16%	Mismatches:	9
Query Match:	80.57%	Indels:	3

DB: 4 Gaps: 1

US-09-674-266a-181 (1-206) x US-09-643-597-78 (1-793)

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Qy 14 HisProSerArgArgLeuThrGlnGlyArgTyrValArgLysSerArgValAlaMetGlu 33
Db 2 CATCTACGCCCGCCGACTACACACAAAGCAGGTGGGTGAGGAATTCAGAGTTCATGAGAG 61
Qy 34 LysIleProValSerLapheLeuLeuValAlaLeuSerTyrThrLeuAlaArgAsp 53
Db 62 AAAATTCAGGTGCACATCTTGGCTCTGTGGCCCTCTCCACACTGCTGGCCAGAGAT 121
Qy 54 ThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGln 73
Db 122 ACCACAGTCAACCTGGAGCCAAAAGGACAAAGAGACTCTGACCCAAAGTGGCCAG 181
Qy 74 ThrLeuSerArgGlyTyrPglLysPglLeuLeuIleTrrPthGlnThrTyrGlnGluAlaLeu 93
Db 182 ACCCTCTCCAGAGTGGGGGTGACCAACTCATCTGACACATATGAGAGCTCTA 241
Qy 94 TyrLysSerLysThrSerAsnLysProLeuMetIleIleHisLysLeuAspGlyCysPro 113
Db 242 TATAAATCCAGACAAGCAAAACCCCTGATGATATTATTCATCAGCTTGATGAGTGCACA 301
Qy 114 HisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGlu 133
Db 302 CACAGTCNAGCTTTAAAGAAAGTGGTGTGAAAATAAGAAATCCAGAAATGGCAGAG 361
Qy 134 GlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAspGly 153
Db 362 CAGTTGTCTCTCTCATCTGGTTATGAAACACTGACAAACACCTTCTCTCTGATGGC 421
Qy 154 GlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIleThr 173
Db 422 CAGTATGT-CCAGAGATATGTTTGTGGACCATCTCTGACAGTGAAGCCGATATCCTG 480
Qy 174 GlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeuAsp 193
Db 481 GGAAGATATTCAACCGTCTATGCTTACAAACT-GCAGATACGCTCTGCTTGGTGCACA 539
Qy 194 AsnMetLysLysAlaLeuLysLeuLys 203
Db 540 CAT---GAAAAGCTCTCAAGTTGCTNAAA 566

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RESULT 7

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US-09-221-298-32
; Sequence 32, Application US/09221298
; Patent No. 6284241
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF COLON CANCER
; FILE REFERENCE: 210121.471
; CURRENT APPLICATION NUMBER: US/09/221,298
; CURRENT FILING DATE: 1998-12-23
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 401
; TYPE: DNA
; ORGANISM: Human
US-09-221-298-32

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Alignment Scores:

Pred. No.:	2.96e-78	Length:	401
Score:	683.00	Matches:	132
Percent Similarity:	98.51%	Conservative:	0
Best Local Similarity:	98.51%	Mismatches:	1
Query Match:	64.25%	Indels:	1
DB:	4	Gaps:	0

US-09-674-266a-181 (1-206) x US-09-221-298-32 (1-401)

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QY 57 LysProGlyValAlaLysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSer 76
DB 2 AAACCTGAGCAAAAGAGACAAAGACTCTGACCAACTGCCCCAGACCTCTCC 61
QY 77 ArgGlyTrpGlyAspGlnLeuIleTrpThrGlnThrTyrgluGluAlaLeuTyrglySer 96
DB 62 AGAGTTGGGGGTGACCAACATCTGAGCTCAGACATATGAGAACCTCTATATAATCC 121
QY 97 LysThrSerAsnLysProLeuMetIleIleHisHisLeuAspGluCysProHisSerGln 116
DB 122 AACACAAAGCAACAAACCTTGATGATTATATCATCTGCTGGTGGTCCACACAGCA 181
QY 117 AlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheVal 136
DB 182 GCCTTAAAGAAAGTGTGCTGAAATAAAGCAATCGAAGATTGGCAGACGATTTGTC 241
QY 137 LeuLeuAsnLeuValTyrgluThrThrAspLysHisLeuSerProAspGlyGlnTyrgly 156
DB 242 CTCTCAATCTGCTTATGTAAGCAACTGACAAACACCTTCTCTGATGCGCAGTATGTC 301
QY 157 ProArgIleMetPheValAspProSerLeuThrValArgAla-AspIleThrGlyArgTy 176
DB 302 CCAGGATTTATGTTTGTGACCATCTCTGACAGCTTAAAGCCCGATATCTAGTGAAGATA 361
QY 176 rSerAsnArgLeuTyrglyAlaTyrgluProAlaAspThrAla 189
DB 362 TTCAAACCGTCTCTATGCTTACGACCTGCAAGTACAGCT 401

RESULT 8
US-08-916-576B-35
; Sequence 35, Application US/08916576B
; Patent No. 6171816
; GENERAL INFORMATION:
; APPLICANT: YU, GUO-LIANG
; APPLICANT: DILLON, PATRICK J.
; APPLICANT: EBNER, REINHARD
; APPLICANT: ENDRESS, GREGORY A.
; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSWEIN & FOX, P.L.L.C.
; STREET: 1100 NEW YORK AVENUE, SUITE 600
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: US
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/916,576B
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/024,347
; FILING DATE: 23-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: STEFFE, ERIC K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488,0500001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2540
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 386 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-916-576B-35

```

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Alignment Scores:
Pred. No.: 4,77e-73
Score: 642.00
Percent Similarity: 99.22%
Best Local Similarity: 97.66%
Query Match: 60.40%
DB: 4
Gaps: 0

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US-09-674-266a-181 (1-206) x US-08-916-576B-35 (1-386)

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QY 61 LysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgGlyTrpGly 80
DB 2 CGACAGGACACAAAGGAGCTCTGACCAACTGCCCCAGACCTCTCCAGAGGTTGGGGT 61
QY 81 AspGlnLeuIleTrpThrGlnThrTyrgluGluAlaLeuTyrglySerLysThrSerAsn 100
DB 62 GACAA-CTCATCTGACACTCAGACATATGAAAGAACTTATATTAATCCAGACAGCAAC 120
QY 101 LysProLeuMetIleIleHisHisLeuAspGluCysProHisSerGlnAlaLeuLysLys 120
DB 121 AACCCCTTGATGATTTATTCATCTGATGATGAGTGGCCACACAGTCAAGCTTTAAAGAA 180
QY 121 ValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheValLeuLeuAsnLeu 140
DB 181 GTGTTGCTGAAATAAAGAAATCCAGAAATTTGGCAGAGAGTTTGCTCTCAATCTG 240
QY 141 ValTyrgluThrThrAspLysHisLeuSerProAspGlyGlnTyrglyValProArgIleMet 160
DB 241 GTTATGAAACAACTGACAAACACTTTCTCTGATGCGCAGATATGTCCTCCAGGATTATG 300
QY 161 PheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTyrglySerAsnArgLeu 180
DB 301 TTTGTTGACCATCTCTGACAGTTAGCCGAGATATCATCTGGAAGATTTCAATCTCTGC 360
QY 181 TyrAlaTyrgluProAlaAspThr 188
DB 361 TATGCTTACGAACTGCAAGATACA 384

```

```

RESULT 9
US-09-643-597-282
; Sequence 282, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tonglong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.455C11
; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 282
; LENGTH: 404
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(404)
; OTHER INFORMATION: n = A,T,C or G
US-09-643-597-282

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Alignment Scores:

Pred. No.: 1.3e-71 Length: 404
 Score: 631.00 Matches: 125
 Percent Similarity: 92.59% Conservative: 0
 Best Local Similarity: 92.59% Mismatches: 4
 Query Match: 59.36% Indels: 6
 Gaps: 1

US-09-674-266a-181 (1-206) x US-09-643-597-282 (1-404)

QY 13 PROHISPROSERARGARGLEUTHRGINGLYARGTPVALARGLYSSERARGVALAAMET 32
 DB 16 CCGCATCCCTANNCCCGACTCACACAAGGC-----AGAGTNGCCATG 57
 QY 33 GLULYSIIIPROVALSERIALPHELEULEUVALALALEUSERYTRRLAALARG 52
 DB 58 GAGAAATTCAGATGTCAGCATTTCTGCTTGCGCCCTCTCCACACTCGGCCAGA 117
 QY 53 ASPTRTHRVALLYSERPROGLYALALYSASPTRHLYSASPTRARGPROLYSLEUPRO 72
 DB 118 GATACCACAGTCMAACCTGAGCCAAAGACACAAGACACTGCGACCAAACTGCC 177
 QY 73 GLINTHLEUSERARGLYTRPGLYASPGINLEULEITRPTHRLNTHRYGLUGUALA 92
 DB 178 CANACCCCTCCAGAGGTGGGTGACCAACTCATCTGCATCANACATATGAGAAGCT 237
 QY 93 LEUTRYLVSERLVSERLVSERLVSERLVSERLVSERLVSERLVSERLVSERLVSER 112
 DB 238 CTRATATAATCCAGACACACACACACACACCTTATGATATTTATGATCTGATGAGTGC 297
 QY 113 PROHISSEGLALALEULYSLSVALPHEALAGLUASNLSGLULLEGINLSLEUALA 132
 DB 298 CCACACAGTCAGCTTTAAAGAAAGTGTTCGTAAGAAATTAAGAAATCCAGAAATTGGCA 357
 QY 133 GLUGINPHEVALLEULEUSNLEUVALTYRGLUTHRTHASPLYS 147
 DB 358 GAGCAGTTGTCTCCTCAATCTGTTATGAAACAACATGACAAA 402

RESULT 10
 US-08-916-576B-5

; Sequence 5, Application US/08916576B

; Patent No. 6171816

; GENERAL INFORMATION:

; APPLICANT: YU, GUO-LIANG

; APPLICANT: DILLON, PATRICK J.

; APPLICANT: EBER, REINHARD

; APPLICANT: ENDRESS, GREGORY A.

; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS

; NUMBER OF SEQUENCES: 45

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.

; STREET: 1100 NEW YORK AVENUE, SUITE 600

; CITY: WASHINGTON

; STATE: DC

; COUNTRY: US

; ZIP: 20005-3934

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/916,576B

; FILING DATE:

; CLASSIFICATION: 536

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 60/024,347

; FILING DATE: 23-AUG-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: STEFF, ERIC K.

; REGISTRATION NUMBER: 36,688

; REFERENCE/DOCKET NUMBER: 1488.0500001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202) 371-2600

; TELEFAX: (202) 371-2540
 ; INFORMATION FOR SEQ ID NO: 5:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 732 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 49..546
 ; FEATURE:
 ; NAME/KEY: mat.peptide
 ; LOCATION: 118..546
 ; FEATURE:
 ; NAME/KEY: sig.peptide
 ; LOCATION: 49..117
 ; US-08-916-576B-5

Alignment Scores:

Pred. No.: 1.65e-61 Length: 732
 Score: 555.00 Matches: 108
 Percent Similarity: 81.44% Conservative: 28
 Best Local Similarity: 64.67% Mismatches: 19
 Query Match: 52.21% Indels: 12
 Gaps: 4

US-09-674-266a-181 (1-206) x US-08-916-576B-5 (1-732)

QY 41 LEULEUVALALALEUSERYTRHLEUALARGSPTRHTRVALYSERPROGLYALA 60
 DB 79 CTCTTACTGCTCACAGCTTTCTTCCAACTTGCC-----ATTGCAATAAAA----- 123
 QY 61 LYSLSASPTRHLYSASPTRARGPROLYSLEUPROGLINTHLEUSERARGLYTRPGLY 80
 DB 124 -----AAGGAAAGAGGCT-----CCTCAGACACTCAGAGATGGGGA 165
 QY 81 ASPGLINLEUTRPTHRLNTHRYGLUGUALALEUTRYLVSERLVSERLVSERASN 100
 DB 166 GATGACATCACTTGGGTGACCAACTTATGAAAGCTCTTTATGCTTAAAGGTAAG 225
 QY 101 LYSERLEUMETLEILEHSHLSLEUASPGIUCYSPROHISSEGLNALALEULYS 120
 DB 226 AAGCATTTATGTTATTCATCACTGAGGATTTGCAATCTCAAGCACTAAAGAAA 285
 QY 121 VALPHEALAGLUASNLSGLULLEGINLSLEUALGLU---GLNPEVALLEULEASN 139
 DB 286 GTATTTCGCCAAATGAAGAAATGCAAGAAATGCTCAGAAATAGTCAATCATCTAAC 345
 QY 140 LEUVALTYRGLUTHRTRHTRHTRHSHLSLEUSERPROASPGIUNTYRVALPROARG 159
 DB 346 CTTATGCGATGAACCACTGATTAAGAAATTTATACCTTATGCGCAATATGCTGATATC 405
 QY 160 METPHEVALASPROSERLEUTHRVALARGLASPILETTRGLYATGYRSEASARG 179
 DB 406 ATGTTTGTACACCTTCTTTAAGAGTTAGAGCTACATFAGTGGAAATCTCTAACAGA 465
 QY 180 LEUTRYLARGIUPROALASPTHRALALEULEUSPASMECLYSLSALALEU 199
 DB 466 TTGACACATATGAGCTCGGATTTACCCCTATTTGATAGAAACATGAAAGACATTA 525
 QY 200 LYSLEULEUSYTRHGLUEN 206
 DB 526 AGACTTATTCAGTCAGACTA 546

RESULT 11

; Sequence 36, Application US/08916576B

; Patent No. 6171816

; GENERAL INFORMATION:

; APPLICANT: YU, GUO-LIANG

; APPLICANT: DILLON, PATRICK J.

; APPLICANT: EBER, REINHARD

Db 226 AGAAGCTTATATNAATCAAGACAACAAACCTTGATGATATCATCACTG 285
Qy 110 AspGluCySPROHISserGlnAla--LeuLysLysValPheAlaGluAsnLysGluIleG 129
Db 286 GGTGAGTGCCTCCACACAGTTCAAGTTTTTAAGAAAGTGTTCGCTT-----T 330
Qy 129 LnlYLeu-----AlaGluGlnPheVal-LeuLeuAsnLeu-ValTy 142
Db 331 GGAATTATANGAANTCCGNAATTGGGNGAGCAGCTTTGTNCCCTNNAATTTGGGCTTT 390
Qy 142 rGlThrThrAspLysHisLeuSerProAspGlnTyValProArgIleMetPheVa 162
Db 391 GGAACAATGGCCAAACACCTTTTGTGTGNTGNCNATTTTCCCGGNTTTT 450
Qy 162 lAspPro 164
Db 451 TGGCCCC 457

RESULT 13
US-08-916-576B-10
; Sequence 10, Application US/08916576B
; Patent No. 6171816
; GENERAL INFORMATION:
; APPLICANT: YU, GUO-LIANG
; APPLICANT: DILLON, PATRICK J.
; APPLICANT: EBNER, REINHARD
; APPLICANT: ENDRESS, GREGORY A.
; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 NEW YORK AVENUE, SUITE 600
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: US
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/916,576B
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/024,347
; FILING DATE: 23-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: STEFFE, ERIC K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0500001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 506 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-08-916-576B-10

Alignment Scores:
Pred. No.: 5,63e-39 Length: 506
Score: 376.50 Matches: 79
Percent Similarity: 90.00% Conservative: 2
Best Local Similarity: 87.78% Mismatches: 6
Query Match: 35.42% Indels: 3
Gaps: 1
US-09-674-266a-181 (1-206) x US-08-916-576B-10 (1-506)

Qy 97 LysThrSerAsnLysProLeuMetIleHisHisLeuAspGluCySPROHISserGln 116
Db 14 AAGACAGACAAACAAACCTTGATGATATTCATCANTGATGAGTGCACACAGTCA 73
Qy 117 AlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheVal 136
Db 74 GCTTTAAACAAGCTGTTTCTGCTGAATAAAGAAATCCAGAAATTTGGCAGACAGTTTGTG 133
Qy 137 LeuLeuAsnLeuValTyGluThrThr-AspLysHisLeuSerProAspGlnTyVal 156
Db 134 CTCCTCAATCTGCTTTATGAAACAACTGGACAAACACCTTTCTCGATGCGCAGATGT 193
Qy 156 lProArgIleMetPheValAspProSerLeu-ThrValArgAlaAspIleThGlyArg- 175
Db 194 NCCAGAGTTATGTTGTTGACCCATNTCTGACAGCTTAGAGCCGATATCAGTGAGAGA 253
Qy 176 --TyrSerAsnArgLeuTyAlaTy 183
Db 254 TATTTCAACCGTNNCTTATGCTTAC 279

RESULT 14
US-08-916-576B-37
; Sequence 37, Application US/08916576B
; Patent No. 6171816
; GENERAL INFORMATION:
; APPLICANT: YU, GUO-LIANG
; APPLICANT: DILLON, PATRICK J.
; APPLICANT: EBNER, REINHARD
; APPLICANT: ENDRESS, GREGORY A.
; TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 NEW YORK AVENUE, SUITE 600
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: US
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/916,576B
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/024,347
; FILING DATE: 23-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: STEFFE, ERIC K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0500001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 158 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-08-916-576B-37

Alignment Scores:
Pred. No.: 5,26e-24 Length: 158
Score: 253.00 Matches: 51
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 23.80% Indels: 0

GenCore version 5.1.4_p5_4578
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OM protein - nucleic search, using frame_plus_p2n model

Run on: March 13, 2003, 19:43:56 ; Search time 100 Seconds
(without alignments)
1445.842 Million cell updates/sec

Title: US-09-674-266a-181

Perfect score: 1063
Sequence: 1 RLSGAGTSLSGSGPHSRRLT.....DRALLLDNKKALKLKTLEL 206

Scoring table:

BLOSUM62
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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 501302 segs, 350932545 residues

Total number of hits satisfying chosen parameters: 1002604

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-DB=Published.Applications.NA -QFMT=fastap -SUFFIX=inp -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blomsun62
-TRANS=human40.ccl -LIST=45 -DOCALLIGN=200 -THR.SCORE=pct -THR.MAX=100
-THR.MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US09674266.ecgn_1_1_72.ecgnat_06032003_154833_22481
-NCPU=6 -ICPU=3 -NO.XLPYX -NO.MMAP -LARGEQUERY -NEG.SCORES=0 -MAIT -LONGLOG
-DEV.TIMEOUT=120 -WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published.Applications.NA:**

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2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:**
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7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:**
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:**
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11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:**
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:**
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:**
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1025	96.4	1860	9	US-09-981-353-91
2	1025	96.4	1860	10	US-09-895-652-4
3	991	93.2	875	9	US-10-025-380-1098
4	991	93.2	875	9	US-10-078-337-1

5	991	93.2	875	10	US-09-922-217-1098	Sequence 1098, Ap
6	969	91.2	564	10	US-09-998-598-64	Sequence 64, Appl
7	965	90.8	888	10	US-09-895-652-5	Sequence 5, Appl1
8	964	90.7	590	9	US-10-046-935-1635	Sequence 1635, Ap
9	964	90.7	550	9	US-09-878-178-1635	Sequence 1635, Ap
10	957	90.0	554	9	US-10-046-935-1331	Sequence 1331, Ap
11	957	90.0	554	9	US-09-878-178-1331	Sequence 1331, Ap
12	946	89.0	600	9	US-10-046-935-1481	Sequence 1481, Ap
13	946	89.0	600	9	US-09-878-178-1481	Sequence 1481, Ap
14	912	85.8	543	10	US-09-792-439-1	Sequence 1, Appl1
15	899	84.6	537	10	US-09-919-580-786	Sequence 786, Appl
16	876	82.4	522	9	US-10-046-935-2200	Sequence 2200, Ap
17	876	82.4	522	9	US-09-878-178-2200	Sequence 2200, Ap
18	856.5	80.6	793	10	US-09-735-705-78	Sequence 78, Appl
19	856.5	80.6	793	10	US-09-850-7168-78	Sequence 78, Appl
20	856.5	80.6	793	10	US-09-897-778-78	Sequence 78, Appl
21	838	78.8	720	9	US-10-227-884-73	Sequence 73, Appl
22	838	78.8	720	9	US-10-230-163-73	Sequence 73, Appl
23	838	78.8	720	9	US-10-218-631-73	Sequence 73, Appl
24	838	78.8	720	9	US-10-230-338-73	Sequence 73, Appl
25	702	66.0	409	9	US-10-025-380-183	Sequence 183, App
26	702	66.0	409	10	US-09-922-217-183	Sequence 183, App
27	702	66.0	409	10	US-09-833-263-183	Sequence 183, App
28	691	65.0	580	9	US-10-046-935-1433	Sequence 1433, Ap
29	691	65.0	580	9	US-09-878-178-1433	Sequence 1433, Ap
30	686	64.5	585	9	US-10-046-935-1363	Sequence 1363, Ap
31	686	64.5	585	9	US-09-878-178-1363	Sequence 1363, Ap
32	683	64.3	401	9	US-10-025-380-32	Sequence 32, Appl
33	683	64.3	401	10	US-09-922-217-32	Sequence 32, Appl
34	683	64.3	401	10	US-09-833-263-32	Sequence 32, Appl
35	642	60.4	386	9	US-10-078-337-35	Sequence 35, Appl
36	631	59.4	404	10	US-09-735-705-282	Sequence 282, App
37	631	59.4	404	10	US-09-850-7168-282	Sequence 282, App
38	631	59.4	404	10	US-09-897-778-282	Sequence 282, App
39	627	59.0	551	9	US-10-046-935-1231	Sequence 1231, Ap
40	627	59.0	551	9	US-09-878-178-1231	Sequence 1231, Ap
41	620	58.3	541	9	US-10-046-935-2131	Sequence 2131, Ap
42	620	58.3	541	9	US-09-878-178-2131	Sequence 2131, Ap
43	616	57.9	541	9	US-10-046-935-1771	Sequence 1771, Ap
44	616	57.9	541	9	US-09-878-178-1771	Sequence 1771, Ap
45	593	55.8	509	9	US-10-046-935-915	Sequence 915, App

ALIGNMENTS

RESULT 1
US-09-981-353-91
: Sequence 91, Application US/09981353
: Patent No. US20020160382A1
: GENERAL INFORMATION:
: APPLICANT: Lasek, Amy W.
: TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
: FILE REFERENCE: PA-0038 US
: CURRENT APPLICATION NUMBER: US/09/981.353
: CURRENT FILING DATE: 2001-10-11
: NUMBER OF SEQ ID NOS: 194
: SOFTWARE: PERL Program
: SEQ ID NO 91
: LENGTH: 1860
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: incyle ID NO. US20020160382A1 343502.10
US-09-981-353-91

Alignment Scores:
Pred. No.: 1.52e-121
Score: 1025.00
Percent Similarity: 98.54%
Best Local Similarity: 98.54%
Query Match: 96.43%
Length: 1860
Matches: 203
Conservative: 0
Mismatches: 3
Indels: 1

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Qy 1 ArgLeuSerCysAlaGlyThrLeuSerCylSerCylProHisProSerArgArgLeuThr 20		
Db 139 AGACTCACCTGTGGTGGGACACTCGAAGCGTT-GGACCGGACTCTTACCGCGGACTCACA 157		
Qy 21 GlnGlyArgTrpValArgGlySerArgValAlaMetGluLysIleProValSerAlaPhe 40		
Db 198 CAAAGCAGCTGGGTGAGGAAATCCAGAGTGTGCCATGGAGAAATTTCCAGTGTGAGCATTC 257		
Qy 41 LeuLeuLeuValAlaLeuSerTyrThrLeuAlaArgAspThrThrValLysProGlyAla 60		
Db 258 TTGCTCTCTTTGGGCCCTCTCTTAACTCTGGCCAGAAATACCAAGTCAAACTGGAGGCC 317		
Qy 61 LysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgGlyTrpGly 80		
Db 318 AAAAAGAGCACAAAGAGACTCTCGACCCCAAACTGGCCCAAGACCTCTCTCAAGAGTGGGGT 377		
Qy 81 AspGlnLeuIleTrpThrGlnThrTyrGluGlnAlaLeuTyrLysSerLysThrSerAsn 100		
Db 378 GACCAACTCATCTGGACTCAGACATATGAGAAAGAACTCTATATAATCCAGACAGCAAC 437		
Qy 101 LysProLeuMetIleIleHisHisLeuAspGluCysTrpHisSerGlnAlaLeuLysLys 120		
Db 438 AAACCTTGATGATATTTCATCATCTTGATGAGAGGCCACACACATCAAGCTTTAAAGAAA 497		
Qy 121 ValPheAlaGlnAsnLysGluIleGlnLysLeuAlaGlnInPheValLeuLeuAsnLeu 140		
Db 498 GTGTTTGCTGAATAATTAAGAAATCCAGAAATTTGGCAAGCAGATTGTCTCTCAATCTG 557		
Qy 141 ValTyrGluThrThrAspLysHisLeuSerProAspGlyGlnTyrValProArgIleMet 160		
Db 558 GTTATGAAACAACTGCACAAACACCTTCTCTGATGGCCAGATGTGCCACAGATTATG 617		
Qy 161 PheValAspProSerLeuThrValArgAlaAspIleThrGlnTyrGlySerAsnArgLeu 180		
Db 618 TTGTGTGACCATCTCTGTACAGTTAGGCCGATATTCACGTGAAGATTTGAAATCGTCTC 677		
Qy 181 TyrAlaTyrGluProAlaAspThrAlaLeuLeuLeuAspAsnMetLysLysAlaLeuLys 200		
Db 678 TATCGTTAGCAAGCTCGCAGATACAGCTCTGTGCTTACACAACATGAAGAAAGCTCTCAG 737		
Qy 201 LeuLeuLysThrGluLeu 206		
Db 738 TTCCTGAAGACTGAATTG 755		
RESULT 2		
US-09-895-652-4		
Sequence 4, Application US/09895652		
Patent No. US20020081640A1		
GENERAL INFORMATION:		
APPLICANT: Machina, Roberta		
TITLE OF INVENTION: Method of Diagnosing, Monitoring, Staging, Imaging and		
FILE REFERENCE: DEX -0211		
CURRENT APPLICATION NUMBER: US/09/895,652		
PRIOR APPLICATION NUMBER: 2001-06-28		
PRIOR FILING DATE: 2000-06-28		
NUMBER OF SEQ ID NOS: 39		
SOFTWARE: PatentIn Ver. 2.1		
SEQ ID NO 4		
LENGTH: 1860		
TYPE: DNA		
ORGANISM: Homo sapiens		
US-09-895-652-4		
Alignment Scores:	1.52e-121	Length: 1860
Score:	1025.00	Matches: 203

Percent Similarity:	98.54%	Conservative:	0
Best Local Similarity:	98.54%	Mismatches:	3
Query Match:	96.43%	Indels:	1
DB:	10	Gaps:	0
US-09-674-266A-181 (1-206) x US-09-895-652-4 (1-1860)			
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DB	139 AGACTCAGCTCTGCTGGCAGCACTCAGAAGCTT-GGACCGCATCTTACGCCCGCATCA	197	
QY	21 GlnGlyArgThrValArgLysSerArgValAlaMetGluLysIleProValSerAlaPhe	40	
DB	198 CAAGCGAGTGGGTGAGCAAAATCCAGAGTTCCTCATGAGAAATATCCAGTCCAGCTTC	257	
QY	41 LeuLeuLeuValAlaLeuSerTyrThrLeuAlaArgAspThrThrValLysProGlyAla	60	
DB	258 TTGCTCTCTTGGGCCCTCTCTACACTCTGGCCGAGATACACAGTCMAACTGGAGCC	317	
QY	61 LysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgGlyTyrGly	80	
DB	318 AAAAAGCACACAAGAGACTCTGCAGCCAAACTGCCCAAGACCTTCACAGGTGGGGT	377	
QY	81 AspGlnLeuIleTrrPrrGlnThrTyrGluAlaLeuTyrLysSerLysThrSerAsn	100	
DB	378 GACCAACCTCATCTGGACTCAGACATATGAAAGAACCTCTATATTAATCAAGACAAAGCAAC	437	
QY	101 LysProLeuMetIleIleHisLysLeuAspLysProHisSerGlnAlaLeuLysLys	120	
DB	438 AAACCTTGATGATATTATTCATCACTTGATGATGAGTGGCCACAGCTCAAGCTTAAAGAA	497	
QY	121 ValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluGlnPheValLeuAsnLeu	140	
DB	498 GTGTTGCTGCTGAAATTAAGAAATCCAAAAATTTGGCAGAGCATTTGTCTCTCAATCTG	557	
QY	141 ValTyrGluTrrPrrAspLysHisLeuSerProAspGlyGlnTyrValProAlaGlnMet	160	
DB	558 GTTATGAAACAACCTGCACAAACACCTTCTCTGATGGCCAGATATGTCCTCCAGATTATG	617	
QY	161 PheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTyrSerAsnArgLeu	180	
DB	618 TTTGTTGACCATCTCTGACAGGTTAGAGCCGATATCACTGAGAGATATTCAATTCGCTC	677	
QY	181 TyrAlaTyrGluProAlaAspThrAlaLeuLeuAsnAspMetLysLysAlaLeuLys	200	
DB	678 TATCTTACGAACTGCAGATATCAGCTGTGTTGCTTGACAAACATGAAAGAGCTTCAG	737	
QY	201 LeuLeuLysThrGluLeu	206	
DB	738 TTGCTGAAGACTGAATTG	755	
RESULT 3			
US-10-025-380-1098			
Sequence 1098, Application US/10025380			
Publication No. US20020182191A1			
GENERAL INFORMATION:			
APPLICANT: Xu, Jiangchun			
APPLICANT: Lodes, Michael J.			
APPLICANT: Secrist, Heather			
APPLICANT: Benson, Darin R.			
APPLICANT: Meagher, Madeleine Joy			
APPLICANT: Stolk, John A.			
APPLICANT: Wang, Tonglong			
APPLICANT: Jiang, Yuhui			
APPLICANT: Smith, Carole L.			
APPLICANT: King, Gordon E.			
APPLICANT: Wang, Aljun			
APPLICANT: Clapper, Jonathan D.			
APPLICANT: Skeiky, Yasir A. W.			
APPLICANT: Fanger, Gary R.			
APPLICANT: Vedvick Thomas S.			
APPLICANT: Carter, Darlick			
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS			

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: TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
: FILE REFERENCE: 210121.471C14
: CURRENT APPLICATION NUMBER: US/10/025,380
: CURRENT FILING DATE: 2001-12-19
: NUMBER OF SEQ ID NOS: 1129
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1098
: LENGTH: 875
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-10-025-380-1098
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: Alignment Scores:
: Pred. No.: 1,1e-117 Length: 875
: Score: 991.00 Matches: .193
: Percent Similarity: 99.48% Conservative: 0
: Best Local Similarity: 99.48% Mismatches: 1
: Query Match: 93.23% Indels: 0
: Gaps: 0
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: Db 14 CCGATTCTCTAGCCGCCCACTCACCAAGGCGAGTGGTGAGGAAATCCAGATTGCCATG 73
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: QY 33 GluLysIleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrrHLeuAlaArg 52
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: QY 53 AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArProLysLeuPro 72
: ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
: Db 134 GATACCCACAGCAAACTCGAGCCAAAAGACCAAGAGCACTTCACCCAAACTGCC 193
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: QY 73 GlnThrLeuSerArGlyTrpGlyAspGlnLeuLeuLeuThrTrpHTrpGlnGluAla 92
: ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
: Db 194 CAGACCTCTCCAAAGTGGGGTGAGCCAACTCATCTCGACTCAGCAATATGANAAGCT 253
:
: QY 93 LeuTyrrLysSerLysTrpSerAsnLysProLeuMetIleIleHisLysLeuAspGluCys 112
: ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
: Db 254 CTATATTAATCCAGACAGCAACAACCCCTTGATGATTAATCATCACTTGATGAGTGC 313
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: QY 113 ProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla 132
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: Db 314 CCACACAGCTCAAGCTTTAAAGAAAGTGTTCGCTGAAAATAAGAAACCGAAATTGGCA 373
:
: QY 133 GluGlnPheValIleLeuAsnLysLeuValTyrcIuThrHraspLysHisLeuSerProAsp 152
: ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
: Db 374 GAGCAGTTTGTCTCTCTCAACTGTTATGAAACAACAGTGAACACCTTTCTCCGAT 433
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: QY 153 GlyGlnTyrrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle 172
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: Db 434 GGCAGATATGCCCCAGAGTATATTTGTGTGACCACATCTCGACAGTTAAGCCGATATC 493
:
: QY 173 ThrGlyArgTyrrSerAsnArgLeuTyrrAlaTyrrGluProAlaAspThrAlaLeuLeu 192
: ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
: Db 494 ACTGGAAGATATTCAAATCGCTCTAGCTTACCAACCTGAGATACAGCTGTGCTT 553
:
: QY 193 AspAsnMetLysLysAlaLeuLysLeuLeuLysThrGluLeu 206
: ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
: Db 554 GACAACATGAGAAAGCTCTCAAGTCTGTAAGACTGAATTG 595
:
: RESULT 4
: US-10-078-337-1
: Sequence 1, Application US/10078337
: Publication No. US2003002306A1
: GENERAL INFORMATION:
: APPLICANT: YU, GUO-LIANG
: DILON, PATRICK J.
: EBNER, REINHARD
: TITLE OF INVENTION: NOVEL HUMAN GROWTH FACTORS
: NUMBER OF SEQUENCES: 45

```

```

CORRESPONDENCE ADDRESS:
ADDRESSSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/078.337
FILING DATE: 21-Feb-2002
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/916,576
FILING DATE: <unknown>
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488, 0500001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 875 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 71..595
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 131..595
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 71..130
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-078-337-1

Alignment Scores:
Pred. No.: 1,1e-117 Length: 875
Percent Similarity: 991.00 Matches: 193
Percent Similarity: 99.48% Conservative: 0
Percent Similarity: 99.48% Mismatches: 1
Query Match: 93.23% Indels: 0
DB: 9 Gaps: 0

US-09-674-266A-181 (1-206) x US-10-078-337-1 (1-875)
QY 13 ProHisProSerArgArgLeuThrGlnGlyAArgrrPValArglySerSerArgValAlaMet 32
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 14 CCGAATTCCTACCGCCGCGACTACACAAAGCGAGGTGGGTGAGGAATTCACAGATTGCCATG 73
33 GluLysIleProValSerAlaPheLeuLeuLeuValAlaLeuSerTyrrThrLeuAlaArg 52
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 74 GAGAAATTCACGTCGACGATTCCTCTCTCTGCGCCCTCTCTACACTGCGCCAGA 133
53 AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro 72
134 GATACCCACAGTCAACCTGGAGGCCAAAGAGACCAAGAGACTCTGCACCCAAATGCC 193
QY 73 GlnThrLeuSerArgGlyTrrGlyAspGlnLeuLeuLettPrrGlnThrTyrrGlnGluAla 92
||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 194 CAGACCCCTCTCCAGAGGTGGGGTGACCAACTATTCTGGACTCAGACATATGAAGAAGCT 253
93 LeuTyrrLysSerLysThrSerAsnLysProLeuMetIleIleHisLysLeuAspGluCys 112

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Db 254 CTATATTAATCCAGACAGCAACAACCCCTGATGATTATTCATCCTTGATGAGTGC 313
 Oy 113 ProHisSerGlnAlaLeuLysLysValPheAlaGlnAsnLysGluIleGlnLysLeuAla 132
 Db 314 CCACACAGTCACAGCTTTAAAGAAAGCTTTGCTGGAATAATCAAGAAATTGGCA 373
 Oy 133 GluGlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAsp 152
 Db 374 GAGCAGTTTGCTCCTCCATCATCTGGTTTATGAAACAACGACACAAACCTTCTCCTGAT 433
 Oy 153 GlyGlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle 172
 Db 434 GGCAGATATGTCGCCAGAGTTATGTTGTTGACCCATCTCTGACAGTTAGACCCGATATC 493
 Oy 173 ThrGlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeu 192
 Db 494 ACTGGAAGATATTCAAAATCTCTATGCTTACGAACCTGCAGATACACCTCTGTTGCTT 553
 Oy 193 AspAsnMetLysLysAlaLeuLysLysLeuLysThrGluLeu 206
 Db 554 GACACATGAGAGAAAGCTCTCAAGTTGCTGAAGACTGAATTG 595

RESULT 5

US-09-922-217-1098
 : Sequence 1098, Application US/09922217
 : Patent No. US20020076414A1
 : GENERAL INFORMATION:
 : APPLICANT: Xu, Jianshun
 : APPLICANT: Lodes, Michael J.
 : APPLICANT: Secrist, Heather
 : APPLICANT: Benson, Darin R.
 : APPLICANT: Meagher, Madeleine Joy
 : APPLICANT: Stolk, John A.
 : APPLICANT: Wang, Tonglong
 : APPLICANT: Jiang, Yugu
 : APPLICANT: Smith, Carole Lynn
 : APPLICANT: King, Gordon E.
 : APPLICANT: Wang, Aljun
 : APPLICANT: Clapper, Jonathan D.
 : TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
 : TITLE OF INVENTION: OF COLON CANCER AND METHODS FOR THEIR USE
 : FILE REFERENCE: 210121.471C13
 : CURRENT APPLICATION NUMBER: US/09/922.217
 : CURRENT FILING DATE: 2001-08-03
 : NUMBER OF SEQ ID NOS: 1124
 : SOFTWARE: FastSeq for Windows Version 4.0
 : SEQ ID NO 1098
 : LENGTH: 875
 : TYPE: DNA
 : ORGANISM: Homo sapiens
 US-09-922-217-1098

Alignment Scores:

Pred. No.: 1,1e-117 Length: 875
 Score: 991.00 Matches: 193
 Percent Similarity: 99.48% Conservative: 0
 Best Local Similarity: 99.48% Mismatches: 1
 Query Match: 93.23% Indels: 0
 DB: 10 Gaps: 0

US-09-674-266a-181 (1-206) x US-09-922-217-1098 (1-875)

Oy 13 ProHisProSerArgArgLeuThrGlnGlyArgTyrPvalArgLysSerArgValAlaMet 32
 Db 14 CCGATTCCTACCGCCGCGACTCACACAAAGCGAGTGGTGAAGAAATCCAGAGTTGCCATG 73
 Oy 33 GluLysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArg 52
 Db 74 GAGAAATTCAGAGTGTGACATTTCTGCTCTGTGGCCCTCTCTACACTCTGGCCAGA 133
 Oy 53 AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro 72
 Db 134 GATACACAGTCACAAACCTGAGCCAAAAGACACAAAGAACTCTGACCCAACTGCC 193

Oy 73 GlnThrLeuSerArgGlyTyrPglYAspGlnLeuIleTyrPthrGlnThrTyrGluGluAla 92
 Db 194 CACACCCCTCCAGAGGTGGGTGACCAACTCATCTGAGCTCAGACATATTGAAGACT 253
 Oy 93 LeuTyrLysSerLysThrSerAsnLysProLeuMetIleIleHisLysLeuAspGluCys 112
 Db 254 CTATATAATCCAAAGACCAAGCAACAAACCTTGATGATATTCATCATCTGATGAGTGC 313
 Oy 113 ProHisSerGlnAlaLeuLysLysValPheAlaGlnAsnLysGluIleGlnLysLeuAla 132
 Db 314 CCACACAGTCACAGCTTTAAAGAAAGTGTGCTGGAATAATCAAGAAATTGGCA 373
 Oy 133 GluGlnPheValLeuLeuAsnLeuValTyrGluThrThrAspLysHisLeuSerProAsp 152
 Db 374 GAGCAGTTTGCTCCTCCATCATCTGGTTTATGAAACAACGACACAAACCTTCTCCTGAT 433
 Oy 153 GlyGlnTyrValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle 172
 Db 434 GGCAGATATGTCGCCAGAGTTATGTTGTTGACCCATCTCTGACAGTTAGACCCGATATC 493
 Oy 173 ThrGlyArgTyrSerAsnArgLeuTyrAlaTyrGluProAlaAspThrAlaLeuLeu 192
 Db 494 ACTGGAAGATATTCAAAATCTCTATGCTTACGAACCTGCAGATACACCTCTGTTGCTT 553
 Oy 193 AspAsnMetLysLysAlaLeuLysLysLeuLysThrGluLeu 206
 Db 554 GACACATGAGAGAAAGCTCTCAAGTTGCTGAAGACTGAATTG 595

RESULT 6

US-09-998-598-64
 : Sequence 64, Application US/09998598
 : Patent No. US20020150922A1
 : GENERAL INFORMATION:
 : APPLICANT: Xu, Jianshun
 : APPLICANT: Chenault, Ruth A.
 : APPLICANT: Meagher, Madeleine Joy
 : TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 : TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
 : FILE REFERENCE: 210121.561
 : CURRENT APPLICATION NUMBER: US/09/998.598
 : CURRENT FILING DATE: 2001-11-16
 : NUMBER OF SEQ ID NOS: 2606
 : SOFTWARE: Corixa Invention Disclosure Database
 : SEQ ID NO 64
 : LENGTH: 564
 : TYPE: DNA
 : ORGANISM: Homo sapiens
 US-09-998-598-64

Alignment Scores:

Pred. No.: 3.72e-115 Length: 564
 Score: 969.00 Matches: 187
 Percent Similarity: 99.47% Conservative: 0
 Best Local Similarity: 99.47% Mismatches: 1
 Query Match: 91.16% Indels: 0
 DB: 10 Gaps: 0

US-09-674-266a-181 (1-206) x US-09-998-598-64 (1-564)

Oy 13 ProHisProSerArgArgLeuThrGlnGlyArgTyrPvalArgLysSerArgValAlaMet 32
 Db 1 CCGATTCCTACCGCCGCGACTCACACAAAGCGAGTGGTGAAGAAATTCAGAGTTGCCATG 60
 Oy 33 GluLysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArg 52
 Db 61 GAGAAATTCAGAGTGTGACATTTCTGCTCTGTGGCCCTCTCTACACTCTGGCCAGA 120
 Oy 53 AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro 72
 Db 121 GATACACAGTCACAAACCTGAGCCAAAAGACACAAAGAACTCTGACCCAACTGCC 180

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OY 73 GlnThrLeuSerArgIlyrpgIyAspGlnLeuIleTprHrGlnThrTyrgIuGlVala 92
|
|
|
Db 181 CAGACCTCTCCAGAGTGGGGTGAACCACTCATCTGGACATGATGAAAGCT 240
OY 93 LeuTyLysSerIyThrSerAnlySProLeuMetIleIleHsHsLeuAspGluCys 112
|
|
|
Db 241 CTAATAAATCCCAAGCAAGCAACCAACCTGATGATATTCATCATCACTTGATGATGC 300
OY 113 ProHISerGlnAlaLeuIyLysValPheAlaGluAsnlySgIuIleGlnLysLeuAla 132
|
|
|
Db 301 CCACACAGCTACACCTTTAAAGAAAGTGTGGTGAATAAAGAAATCCAGAAATGGCA 360
OY 133 GluGlnPheValLeuLeuAsnLeuValTyrgIuThrThraspLysHsIleSerProasp 152
|
|
|
Db 361 GAGCACTTGTCTCTCCATCTGGTTATGAACAACCTGACAAACCTTCTCTCGAT 420
OY 153 GlyGlnTyValProArgIleWetPheValAspProSerLeuThrValAgaAlaAspIle 172
|
|
|
Db 421 GGCCACTATGTCCTCCAGAGTATGTTGTGACCCATCTCTGACAGTTAGAGCCGATATC 480
OY 173 ThrGlyArgTySerAsnArgLeuTyValTyrgIuProAlaAspThrAlaLeuLeu 192
|
|
|
Db 481 ACTGGAAGATATTCAAATGCTCTATGCTTACGAACCTGACAGATACAGCTCTGCTT 540
OY 193 AspAsnMetLysLysAlaLeuLys 200
|
|
|
Db 541 GACACATGACAGAAAGCTCTCAAG 564

RESULT 7
US-09-895-652-5
; Sequence 5, Application US/09895652
; Patent No. US20020081640A1
; GENERAL INFORMATION:
; APPLICANT: Macina, Roberta
; APPLICANT: Pillai, Rageswari
; TITLE OF INVENTION: Method of Diagnosing, Monitoring, Staging, Imaging and
; FILE REFERENCE: DEX-0211
; CURRENT APPLICATION NUMBER: US/09/895,652
; CURRENT FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: 60/214,515
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 888
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-895-652-5

Alignment Scores:
Pred. No.: 2,43e-114 Length: 888
Score: 965.00 Matches: 197
Percent Similarity: 95.17% Conservative: 0
Best Local Similarity: 95.17% Mismatches: 3
Query Match: 90.78% Indels: 8
DB: 10 Gaps: 1

US-09-674-266a-181 (1-206) x US-09-895-652-5 (1-888)
OY 1 ArgLeuSerCysAlaGlyThrLeuSerGlySerGlyProHISerProSerArgArgLeuThr 20
|
|
|
Db 20 AGACTAGCTGTCTGTGGACACTCACAAGCTT-GGACCGCATCTTACCCCGCACTCACA 78
OY 21 GlnGlyArgTrpValArgIyLysSerArgValAlaMetGluLysIleProValSerAlaPhe 40
|
|
|
Db 79 CAAGGC-----AGAGTTCATGGAGAAATTCAGATGTCAGCATTC 120
OY 41 LeuLeuLeuValAlaLeuSerTyThrLeu-AlaArgAspThrThValLysProGlyAl 60
|
|
|
Db 121 TTGCTCTCTTGCGCCCTCTCTCTACACTTGGCCAGATACCAACATCAAACTTGAGC 180
OY 60 AluLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArgIyTrpG 80
```

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|
|
|
Db 181 CAAAAGACACAAAGAGACTCTGACCCAAACTCCCAAGCCTCTCCAGAGTGGG 240
OY 80 yAspGlnLeuIleTprHrGlnThrTyrgIuGlAlaLeuTyLysSerIyThrSerAs 100
|
|
|
Db 241 TGACCAACTCATCTGACACTGACATATGAAAGAGCTCTATTAATCCAAAGACAA 300
OY 100 nLysProLeuMetIleIleHsHsLeuAspGluCysProHISerGlnAlaLeuLys 120
|
|
|
Db 301 CAAACCTTGATGATTAATTCATCACTTGATGATGCCACACAGTCAACCTTTAAAGAA 360
OY 120 sValPheAlaGluAsnlySgIuIleGlnLysLeuAlaGlnPheValLeuAsnLe 140
|
|
|
Db 361 AGCTGTTCGGAATAATTAAGAAATCCAGAAATTCGACAGACAGTTTCTCTCATCT 420
OY 140 uValTyrgIuThrThraspLysHsIleSerProAspGlyGlnTyValProArgIle 160
|
|
|
Db 421 GGTATATGAACCAACTGACCAACACCTTCTCCGATGAGCCAGATATGCCCAAGATTAT 480
OY 160 tPheValAspProSerLeuThrValArgAlaAspIleThrGlyArgTySerAsnArgLe 180
|
|
|
Db 481 GTTGTGTGACCACTCTTGACAGTTAGAGCCGATATCACTGGAAGATATTCAAACCTCT 540
OY 180 uTyValATyrgIuProAlaAspThrAlaLeuLeuAspAsnMetLysLysAlaLeu 200
|
|
|
Db 541 CTATGCTTACGAACCTGACATACAGCTCTGTCTTGACACACTGAAGAAAGCTCTCAA 600
OY 200 sLeuLeuLysThrGluLeu 206
|
|
|
Db 601 GTTGCTGACAGACATCAATTG 619

RESULT 8
US-10-046-935-1635
; Sequence 1635, Application US/10046935
; Patent No. US20020156011A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yungiu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secrist, Heather
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.527c1
; CURRENT APPLICATION NUMBER: US/10/046,935
; CURRENT FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 2239
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1635
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-046-935-1635

Alignment Scores:
Pred. No.: 1,75e-114 Length: 590
Score: 964.00 Matches: 188
Percent Similarity: 99.47% Conservative: 0
Best Local Similarity: 99.47% Mismatches: 1
Query Match: 90.69% Indels: 0
DB: 9 Gaps: 0

US-09-674-266a-181 (1-206) x US-10-046-935-1635 (1-590)
OY 18 ArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMetGluLysIleProVal 37
|
|
|
Db 3 CGACTACACAAAGCAGAGTGGGTGAGAAATTCAGATTTGCCATGAGAAATTCAGATG 62
OY 38 SerAlaPheLeuLeuValAlaLeuSerTyThrLeuAlaArgAspThrThrValLys 57
|
|
|
Db 63 TCAGCAATTTCTGCTTGTGGCCCTCTCTACACTCTGGCCAGAGATACACAGTCAAA 122
OY 58 ProGlyLysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArg 77
```

```
|||||
Db 123 CCTGAGCCCAAAAGACACAAAGACACTCTGACCCCAACTGCCAGACCTCTCCAGA 182
Oy 78 GYTSPGLYASPGlnleuiletrpfrhgrlnthryrgluGlalaLeuThryrlysserlys 97
Db 183 GGTGGGGGTGACCACTACTCTGACACTGACATATGAAGAAGCTCTATATAAATCCAAAG 242
Oy 98 ThrSerAsnLysProLeuMetIleIleHisLysLeuAspGluCysProHisSerGlnala 117
Db 243 ACAACGACAAACCCCTTGATGATTAATTCATCACTTGATGATGAGCCACAGCTCAAGCT 302
Oy 118 LeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluInPheValLeu 137
Db 303 TTAAGAAAGGTGTTGCTGCAAAATTAAGAAATTCAGAAATTTGGCAGAGAGTTTCTCC 362
Oy 138 LeuAsnLeuValTYrGlnThrThrAspLysHisLysSerProAspGluGlnThyValPro 157
Db 363 CCCAATCTGCTGTTATGAACAACACTGACAAACACCTTTCTCCGATGGCCAGATATGCC 422
Oy 158 ArgIleMetPheValAspProSerLeuThrValAlaArgAlaAspIleThrclyArgTyrSer 177
Db 423 AGGATTATGTTGTTGACCCATCTCTGACAGTTAGAGCCGATATCACTGGAAGATATTC 482
Oy 178 AsnArgLeuTYrAlaTYrGlnProAlaAspThrAlaLeuLeuAspAsnMetLysLys 197
Db 483 AATCGTCTTATGCTTACGAACTGACAGATACAGCTGTTGCTTGACAAATGAAGAAA 542
Oy 198 AlaLeuLysLeuLeuLysThrcLysLeu 206
Db 543 GCTCTCAAGTTCGTGAAGACTGAATTG 569
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RESULT 9

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US-09-878-178-1635
; Sequence 1635, Application US/09878178
; Patent No. US2002017552A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secretist, Heather
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.527
; CURRENT APPLICATION NUMBER: US/09/878.178
; CURRENT FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 2237
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1635
; LENGTH: 590
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-878-178-1635
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Alignment Scores:

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Pred. No.: 1.75e-114 Length: 590
Score: 964.00 Matches: 188
Percent Similarity: 99.47% Conservative: 0
Best Local Similarity: 99.47% Mismatches: 1
Query Match: 90.69% Indels: 0
DB: 9 Gaps: 0
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US-09-674-266a-181 (1-206) x US-09-878-178-1635 (1-590)

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Oy 18 ArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMetGluLysIleProVal 37
Db 3 CGACACACAAAGCAGGTGGGTGAGAAATCCACAGTTGCCATGAGAAATTTCCAGG 62
Oy 38 SerAlaPheLeuLeuLeuValAlaLeuSerTYrThrLeuAlaArgAspThrThrValLys 57
Db 63 TCAGCATCTGCTCTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 122
Oy 58 ProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGlnThrLeuSerArg 77
Db 123 CCTGAGCCCAAAAGACACAAAGACACTCTGACCCCAACTGCCAGACCTCTCCAGA 182
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Oy 78 GYTSPGLYASPGlnleuiletrpfrhgrlnthryrgluGlalaLeuThryrlysserlys 97
Db 183 GGTGGGGGTGACCACTACTCTGACACTGACATATGAAGAAGCTCTATATAAATCCAAAG 242
Oy 98 ThrSerAsnLysProLeuMetIleIleHisLysLeuAspGluCysProHisSerGlnala 117
Db 243 ACAACGACAAACCCCTTGATGATTAATTCATCACTTGATGATGAGCCACAGCTCAAGCT 302
Oy 118 LeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAlaGluInPheValLeu 137
Db 303 TTAAGAAAGGTGTTGCTGCAAAATTAAGAAATTCAGAAATTTGGCAGAGAGTTTCTCC 362
Oy 138 LeuAsnLeuValTYrGlnThrThrAspLysHisLysSerProAspGluGlnThyValPro 157
Db 363 CCCAATCTGCTGTTATGAACAACACTGACAAACACCTTTCTCCGATGGCCAGATATGCC 422
Oy 158 ArgIleMetPheValAspProSerLeuThrValAlaArgAlaAspIleThrclyArgTyrSer 177
Db 423 AGGATTATGTTGTTGACCCATCTCTGACAGTTAGAGCCGATATCACTGGAAGATATTC 482
Oy 178 AsnArgLeuTYrAlaTYrGlnProAlaAspThrAlaLeuLeuAspAsnMetLysLys 197
Db 483 AATCGTCTTATGCTTACGAACTGACAGATACAGCTGTTGCTTGACAAATGAAGAAA 542
Oy 198 AlaLeuLysLeuLeuLysThrcLysLeu 206
Db 543 GCTCTCAAGTTCGTGAAGACTGAATTG 569
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RESULT 10

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US-10-046-935-1331
; Sequence 1331, Application US/10046935
; Patent No. US2002015601A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Secretist, Heather
; APPLICANT: Wang, Aijun
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.527C1
; CURRENT APPLICATION NUMBER: US/10/046.935
; CURRENT FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 2239
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1331
; LENGTH: 554
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-046-935-1331
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Alignment Scores:

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Pred. No.: 1.25e-113 Length: 554
Score: 957.00 Matches: 184
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 90.03% Indels: 0
DB: 9 Gaps: 0
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US-09-674-266a-181 (1-206) x US-10-046-935-1331 (1-554)

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Oy 13 ProHisProSerArgArgLeuThrGlnGlyArgTrpValArgLysSerArgValAlaMet 32
Db 1 CCGCATCTCTAGCCGCCGACTCTCACACAGCAGGTGGGTGAGAAATCCAGAGTTGCCATG 60
Oy 33 GluLysIleProValSerAlaPheLeuLeuLeuValAlaLeuSerTYrThrLeuAlaArg 52
Db 61 GAGAAATATCCAGTGTACACATCTTGCCTTGTGGCCCTCTCTCTCTCTCTCTCTCTCT 120
Oy 53 AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro 72
Db 121 GATACCACAGTCAAACTGTGAGCCCAAAAGACACAAAGACTCTCTGACCCAAACTGCC 180
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OY 73 GlnThrLeuSerArgLysTrpGlyAspGlnLeuIleTrpThrGlnThrTyrgluAla 92
    |||||||
Db 181 CAGACCCCTCCAGAGGTGGGTGACCACTCATCTGACATGATGAGAGCT 240
OY 93 LeuTyrlsSerLysThrSerAnlysProLeuMetIleIleHisHisLeuAspGluCys 112
    |||||||
Db 241 CTATATAATCCAGACGACCAACAAACCTTGATGATATTATTCATCAGCTTGATGAGTGC 300
OY 113 ProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla 132
    |||||||
Db 301 CCACACAGCTCAAGCTTTAAAGAAAGCTTTGCTGAAATAAAGAAATCCAGAAATGGCA 360
OY 133 GluGlnPheValLeuLeuAsnLeuValTyrgluThrThrAspLysHisLeuSerProAsp 152
    |||||||
Db 361 GAGCAGTTTGTCTCCTCATCTGTTTATGAAACACAGTCAACACCTTCTCTGAT 420
OY 153 GlyGlnTyValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle 172
    |||||||
Db 421 GGCACGATATGCCACGATTTATGTTGTGACCCATCTCTGACATGAGCCGATATC 480
OY 173 ThrGlyArgTySerAsnArgLeuTyraLysTyrgluProAlaAspThrAlaLeuLeu 192
    |||||||
Db 481 ACTGGAAGATATTCAATCGTCTCTATGCTTACGAACTGACAGATACAGCTGTGCTT 540
OY 193 AspAsnMetLys 196
    |||||||
Db 541 GACACATGAG 552

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RESULT 11
US-09-878-178-1331
: Sequence 1331, Application US/09878178
: Patent No. US20020177552A1
: GENERAL INFORMATION:
: APPLICANT: Jiang, Yugu
: APPLICANT: Harlocker, Susan L.
: APPLICANT: Secrist, Heather
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
: FILE REFERENCE: 210121.527
: CURRENT APPLICATION NUMBER: US/09/878.178
: CURRENT FILING DATE: 2001-06-08
: NUMBER OF SEQ ID NOS: 2237
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1331
: LENGTH: 534
: TYPE: DNA
: ORGANISM: Homo sapien
US-09-878-178-1331

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Alignment Scores:
Pred. No.: 1.25e-113 Length: 554
Score: 957.00 Matches: 184
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 90.03% Indels: 0
DB: 9 Gaps: 0

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US-09-674-266a-181 (1-206) x US-09-878-178-1331 (1-524)
OY 13 ProHisSerArgLysTrpGlnGlyArgTrpValArgLysSerArgValAlaMet 32
    |||||||
Db 1 CCGCATCTCAGCGCGGCGATCCACACAGGAGGTGGTGGGAAATCCAGATGGCATG 60
OY 33 GluLysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrlsLeuAlaArg 52
    |||||||
Db 61 GAGAAATTCAGATGTCAGCATCTTCGTCCTGCGCCCTCTCCTAAGCTGGCAG 120
OY 53 AspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuPro 72
    |||||||
Db 121 GATACACAGATCAAACTGAGGCAAAAGGACACAAAGGACCTCTGACCAAACTGCC 180
OY 73 GlnThrLeuSerArgLysTrpGlyAspGlnLeuIleTrpThrGlnThrTyrgluAla 92

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Db 181 CAGACCCCTCCAGAGGTGGGTGACCAACTCATCTGACATGATGAGAGCT 240
OY 93 LeuTyrlsSerLysThrSerAnlysProLeuMetIleIleHisHisLeuAspGluCys 112
    |||||||
Db 241 CTATATAATCCAGACGACCAACAAACCTTGATGATATTATTCATCAGCTTGATGAGTGC 300
OY 113 ProHisSerGlnAlaLeuLysLysValPheAlaGluAsnLysGluIleGlnLysLeuAla 132
    |||||||
Db 301 CCACACAGCTCAAGCTTTAAAGAAAGCTTTGCTGAAATAAAGAAATCCAGAAATGGCA 360
OY 133 GluGlnPheValLeuLeuAsnLeuValTyrgluThrThrAspLysHisLeuSerProAsp 152
    |||||||
Db 361 GAGCAGTTTGTCTCCTCATCTGTTTATGAAACACAGTCAACACCTTCTCTGAT 420
OY 153 GlyGlnTyValProArgIleMetPheValAspProSerLeuThrValArgAlaAspIle 172
    |||||||
Db 421 GGCACGATATGCCACGATTTATGTTGTGACCCATCTCTGACATGAGCCGATATC 480
OY 173 ThrGlyArgTySerAsnArgLeuTyraLysTyrgluProAlaAspThrAlaLeuLeu 192
    |||||||
Db 481 ACTGGAAGATATTCAATCGTCTCTATGCTTACGAACTGACAGATACAGCTGTGCTT 540
OY 193 AspAsnMetLys 196
    |||||||
Db 541 GACACATGAG 552

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RESULT 12
US-10-046-935-1481
: Sequence 1481, Application US/10046935
: Patent No. US20020156011A1
: GENERAL INFORMATION:
: APPLICANT: Jiang, Yugu
: APPLICANT: Harlocker, Susan L.
: APPLICANT: Secrist, Heather
: APPLICANT: Wang, Aljun
: APPLICANT: Stolk, John A.
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
: FILE REFERENCE: 210121.527C1
: CURRENT APPLICATION NUMBER: US/10/046.935
: CURRENT FILING DATE: 2002-01-15
: NUMBER OF SEQ ID NOS: 2239
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1481
: LENGTH: 600
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: 581
: OTHER INFORMATION: n = A,T,C or G
US-10-046-935-1481

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Alignment Scores:
Pred. No.: 3.65e-112 Length: 600
Score: 946.00 Matches: 186
Percent Similarity: 96.89% Conservative: 1
Best Local Similarity: 96.37% Mismatches: 0
Query Match: 88.99% Indels: 6
DB: 9 Gaps: 1

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US-09-674-266a-181 (1-206) x US-10-046-935-1481 (1-600)
OY 14 HisProSerArgLysTrpGlnGlyArgTrpValArgLysSerArgValAlaMetGlu 33
    |||||||
Db 3 CATCTACAGCGCGGCGATCCACACAGC-----AGATGGCATGAG 44
OY 34 LysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrlsLeuAlaArgAsp 53
    |||||||
Db 45 AAATTCAGATGTCAGCATCTTCGTCCTGTCGCTCTCTAAGCTGGCAGAGAT 104
OY 54 ThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGln 73

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|||||
Db 105 ACCACAGTCAAACTCGAGCCAAAAGACACAAAGACTCTCGACCCAACTGCCCCAG 164
Qy 74 ThrleuserarGlyTTPGlyAspGlnleuIleThrprThrGlnThrTyrgluGlnAlaLeu 93
Db 165 ACCCTCTCCAGAGGTGGGGTGACCACTCATCTGACTGACACTTATGAAGAGCTCTA 224
Qy 94 TyrlsSerlysthrSerAsnlyspProleuMetIleIleHISHisLeuAspGlnCysPro 113
Db 225 TATTAATCCAGACACAGCAACAAACCTTGATGATTATTCACCTGGATGAGTGGCCCA 284
Qy 114 HisserGlnAlaLeuLysLysValPheAlaGlnAsnLysGluIleGlnLysLeuAlaLeu 133
Db 285 CACAGTCAAGCTTTAAAGAAAGTGTGCTGAATAAAGAAATCCAAATAATGGCAGAG 344
Qy 134 GlnPheValleuLeuAsnLeuValTyrgluThrThrAspLysHisLeuSerProAspGly 153
Db 345 CAGTTTGCTCCCTCAATCTGTTATGAACCACTGCACAAACCTTTCCTGATGAC 404
Qy 154 GlnTyValProArgIleMetPheValAspProSerleuthrValArgAlaAspIleThr 173
Db 405 CAGTATGTCCTCCAGATTTATGTTGTGACCATCTGACAGTTAGAGCCGATATCACT 464
Qy 174 GlyArgTyrSerAsnArgLeuTyraIleTyrgluProAlaAspThrAlaLeuLeuAsp 193
Db 465 GGAAGATATTCAAAATCGTCTATGCTTACGACACCTGCAGATACAGCTCTGTGCTTAC 524
Qy 194 AsnMetLysLysAlaLeuLysLeuLeuLysThrGluLeu 206
Db 525 AACATGAAGAAAGCTCTCAAGTCTGTAAGACTGAATAATT 563
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RESULT 13
US-09-878-178-1481
: Sequence 1481, Application US/09878178
: Patent No. US2002017552A1
: GENERAL INFORMATION:
: APPLICANT: Jlang, Yugu
: APPLICANT: Harlocker, Susan L.
: APPLICANT: Secrist, Heather
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: FILE REFERENCE: 210121.527
: CURRENT APPLICATION NUMBER: US/09/878.178
: NUMBER OF SEQ ID NOS: 2237
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1481
: LENGTH: 600
: TYPE: DNA
: ORGANISM: Homo sapien
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (1)..(600)
: OTHER INFORMATION: n = A,T,C or G
US-09-878-178-1481
```

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Alignment Scores:
Pred. No.: 3,65e-112 Length: 600
Score: 946.00 Matches: 186
Percent Similarity: 96.89% Conservative: 0
Best Local Similarity: 96.37% Mismatches: 0
Query Match: 88.99% Indels: 1
Db: 9 Gaps: 1
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US-09-674-266a-181 (1-206) x US-09-878-178-1481 (1-600)

```
Qy 14 HistProSerArgLeuThrGlnGlyArgTrrValArgLysSerArgValAlaMetCln 33
Db 3 CATCTGAGCCGCGACATCCACACAAGGC-----AGAGTGCCATGAG 44
Qy 34 LysIleProValSerAlaPheLeuLeuValAlaLeuSerTyrThrLeuAlaArgasp 53
Db 45 AAAATTTCAGTGTGACGATTTCTGCTCTTGGCCCTCTCTACACTGTGCGCAGAGAT 104
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Qy 54 ThrThrValLysProGlyAlaLysLysAspThrLysAspSerArgProLysLeuProGln 73
Db 105 ACCACAGTCAAACTCGAGCCAAAAGACACAAAGACTCTCGACCCAACTGCCCCAG 164
Qy 74 ThrleuserarGlyTTPGlyAspGlnleuIleThrprThrGlnThrTyrgluGlnAlaLeu 93
Db 165 ACCCTCTCCAGAGGTGGGGTGACCACTCATCTGACTGACACTTATGAAGAGCTCTA 224
Qy 94 TyrlsSerlysthrSerAsnlyspProleuMetIleIleHISHisLeuAspGlnCysPro 113
Db 225 TATTAATCCAGACACAGCAACAAACCTTGATGATTATTCACCTGGATGAGTGGCCCA 284
Qy 114 HisserGlnAlaLeuLysLysValPheAlaGlnAsnLysGluIleGlnLysLeuAlaLeu 133
Db 285 CACAGTCAAGCTTTAAAGAAAGTGTGCTGAATAAAGAAATCCAGAAATGGCAGAG 344
Qy 134 GlnPheValleuLeuAsnLeuValTyrgluThrThrAspLysHisLeuSerProAspGly 153
Db 345 CAGTTTGCTCCCTCAATCTGTTATGAACCACTGCACAAACCTTTCCTGATGAC 404
Qy 154 GlnTyValProArgIleMetPheValAspProSerleuthrValArgAlaAspIleThr 173
Db 405 CAGTATGTCCTCCAGATTTATGTTGTGACCATCTGACAGTTAGAGCCGATATCACT 464
Qy 174 GlyArgTyrSerAsnArgLeuTyraIleTyrgluProAlaAspThrAlaLeuLeuAsp 193
Db 465 GGAAGATATTCAAAATCGTCTATGCTTACGACACCTGCAGATACAGCTCTGTGCTTAC 524
Qy 194 AsnMetLysLysAlaLeuLysLeuLeuLysThrGluLeu 206
Db 525 AACATGAAGAAAGCTCTCAAGTCTGTAAGACTGAATAATT 563
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RESULT 14
US-09-792-439-1
: Sequence 1, Application US/09792439
: Patent No. US20020111303A1
: GENERAL INFORMATION:
: APPLICANT: Boyd, Robert Simon
: APPLICANT: Stamps, Alasdair Craig
: APPLICANT: Terrett, Jonathan Alexander
: APPLICANT: Tyson, Kerry Louise
: TITLE OF INVENTION: Diagnostic and Therapeutic Methods
: FILE REFERENCE: 2543-1-005N
: CURRENT APPLICATION NUMBER: US/09/792.439
: PRIOR FILING DATE: 2001-02-23
: PRIOR APPLICATION NUMBER: GB 0004576.5
: PRIOR FILING DATE: 2000-02-25
: NUMBER OF SEQ ID NOS: 8
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1
: LENGTH: 543
: TYPE: DNA
: ORGANISM: human
US-09-792-439-1
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```
Alignment Scores:
Pred. No.: 7,22e-108 Length: 543
Score: 912.00 Matches: 178
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.79% Indels: 0
Db: 10 Gaps: 0
```

US-09-674-266a-181 (1-206) x US-09-792-439-1 (1-543)

```
Qy 29 ArgValAlaMetGluLysIleProValSerAlaPheLeuLeuValAlaLeuSerTyr 48
Db 2 AGAGTTGCCATGAGAAATCCACAGTTCACATCTTGCTGTGCGCCCTCCCTAC 61
Qy 49 ThrLeuAlaArgaspThrThrValLysProGlyAlaLysLysAspThrLysAspSerArg 68
Db 62 ACTTGCCAGAGATACACAGTCAAGCTTGAGCCAAAAGAGACCAAAAGACTCTCGA 121
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